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WYCKOFF'S CONCENTRATOR.

The importance of having a really good machine by which the sulphurets may be concentrated from the more bulky tailings, is acknowledged by all mill-men. We therefore present to the readers of the JOURNAL OF MINING this week, an excellent illustration of a shaking table, by which the operation can be accomplished expeditionsly and well. It is the invention of J. N. Wyckoff, Esq., of Virginia, whose "chloride of sodium process" was illustrated and described in our last The tailings are simply fed upon an apron, on issue. which some fifty jets of water flow, washing the sand

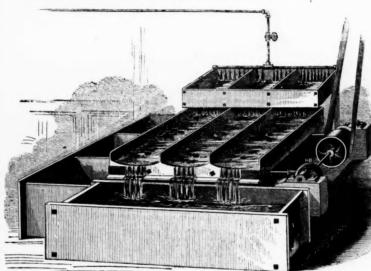
down into the first row of boxes where the heavy sulphurets are caught. Of course, when the boxes are all full, the richest concentration will be found in the upper boxes. The table shakes sideways, instead of lengthwise as in many other concentrators. The patentee informs us that thousands of tons of tailings have been worked by this machine-all showing perfect concentration. Lower concentrations can be made by taking up the first three boxes and running the tailings into two, or by turning the two into one, which will give the lowest-excellent, as has been proven, for working good gold ores. The debris, of course, flows off, and only valuable matter is left behind. It is also useful in separating free gold, silver, copper, etc, from one another-the metals with the highest specific gravity being caught first, and so on. It can be seen in operation daily at the Reduction Works of

Mr. W. M. Fuller, of Chicago, has invented a machine for separating gold and silver from its quartzose matrix. It is claimed that ninety-six per cent. of all the gold in the ore is separated and saved. The principle upon which it works is this : Pulverized quartz is found to be impervious to the air ; it is also lighter than lead; and if it can be forced through molten lead, the gold will amalgamate with the lead, and the lighter quartz will rise to the surface. The machine Mr. Fuller uses for carrying ont this process may be thus described : An air-tight cast iron vessel is provi-

that gentleman inferred from certain indications that a portion in hieroglyphics must still remain below the surface of the soil. He accordingly communicated his conjecture to M. de Lesseps, who ordered excavations to be made, which brought to light a translation of the cuneiform writing in Egyptian hieroglyphics The stone bearing this bilingual inscription, which belongs to the reign of Darius, will shortly be conveyed to the museum of Boulac.

The Copper Trade.

Messrs. Vivian & Younger, the metal brokers, have



WYCKOFF'S GOLD AND SILVER CONCENTRATOR.

Barber & Wyckoff, foot of North Third street, Brook- (lyn, E. D.

Ancient Mining.

Interesting discoveries have lately been made in the San Domingo mines of Spain, showing the methods of mining adopted by the ancients. In some of the mines the Romans dug draining galleries nearly three miles in length, but in others the water was raised by wheels to carry it over the rocks that crossed the drift. Eight of these wheels have recently been discovered by the miners who are now working in the same old mines. The wheels are made of wood, the arms and felloes of pine, and the axle and its support of oak, the fabric being remarkable for the lightness of its construction. It is supposed that these wheels cannot be less than fifteen hundred years old, and the wood is in a perfect state of preservation, owing to its im mersion in water charged with the salts of copper and iron. From their position and construction, the wheels are supposed to have been worked as tread-mills, by men standing with naked feet upon one side. The water was raised by one wheel into a basin, from which it was raised to another stage by the second wheel, and so on for eight stages .- S. F. Miner.

ded, through the top of which a cylinder is inserted, reaching nearly to the bottom of the vessel, and below the surface of a quantity of molten lead contained therein; the lead is heated by a fire underneath the Thus the surface of the molton lead within vessel. the cylinder is exposed to the air, while the air above the remaining part of the lead is enclosed by the sides and top of the vessel and the outer side of the cylinder, and can consequently be exhausted by an air pump. When this is done, powdered quartz is passed through a hopper into the cylinder, the pressure of the air forces it to the bottom of the cylinder, escaping from which it rises, by its own specific gravity, to the surface of the lead, and thence passes over into a tailings receiver, also air tight. During its passage, however, through the lead, it has become pure quartz, having lost all its gold, which is amalgamated with the lead and can easily be separated from it.

Archæological Discovery.

An important discovery has just been made in Egypt, at Chalouf, a station some leagues north of Suez, where a monument of Persian origin has long been known to exist. A copy of some cuneiform inscriptions found there having been sent to M. Mariette, just issued a pamphlet, entitled "Remarks on the position and prospects of the Copper trade in England, as affected by the war between Spain and Chili," in which they state that during the past seven months, the Copper Trade has passed through a period unexampled during the present generation, the salient fact being that the result of the war is that English Copper is £10 per ton cheaper than before it commenced. They observe that this state of things is certainly anomalous, and deserving of some special notice.

From a general review of the position of copper in the world, and having before them many details which it is impossible to embody in a sketch like the present, they are led to three conclusions :

1. That the average value of copper should be dependent entirely upon the relation of supply and demand, subject, of course, to minor variations, such as more or less speculation, temporary commercial disturb-

ances. etc. 2. That, as more than one half of the worlds' supply of copper is obtained from Chili, the production of that country should be looked to as the practical in-

dex of the value of the article elsewhere. 3. That taking all circumstances into consideration, the value of copper is unduly depressed in this coun-

They estimate, upon good authority, that the total production of fine copper in the world is at present 90,000 tons per annum, of which more than 48,000 tons are exported from Chili. It must, they think, be apparent that their estimate of exports from Chili for the year ending September 30th next, is not understated at 38,000 tons. On this assumption, therefore, there will be a deficient supply of copper from Chili, to the extent of 14,000 tons (as compared with the twelve months ending September 30th, 1865), and the inference is, that unless this deficiency be made up by increased supplies from other parts of the world, or by a remarkable decrease in the consumption of the article, it is fair to anticipate an important improvement in the price of copper during the present year. In the United Kingdom the production reached its maximum in the year 1856, since when a large falling

try at the present time.

off has occurred, the yield at present being only about half of what it was in that year. The government tables for 1865 have not yet been published, but as they know that the mines of Devonshire and Cornwall (which form three-fourths of the total production of the British I-sles), yielded last year 9,750 tons of fine copper, against 1,050 tons in 1864, they are able pretty accurately to estimate the total production of the United Kingdom for 1865, and they put it down as equal to 1864, say 13,000 tons. The yield of the Cornish and Devon mines for the first quarter of 1866 is put down, they continue, according to the *Mining* Cornish and Deron mines for the first quarter of 1866 is put down, they continue, according to the Mining Journal, as 2,220 tons, against 2,498 tons during the similar corresponding period of 1865, which goes to confirm their opinion as to the steady decline in pro-duction; the other European production, though in the aggregate of considerable importance, seems, as far as they can ascertain, to remain about stationary, and may, therefore, be considered to occupy a neutral position with reference to the broad question of supply and demand. and demand.

The yield from Australia (which is directed exclu-The yield from Australia (which is directed exclu-sively to England and India), has lately averaged about 5,000 to 6,000 tons of line copper, and the rich-est mine there (Burra Burra), has become poor, so that altogether the above rate of supply is with difficulty maintained, the tendency being rather towards a de-crease in production. The yield at the Cape of Good Hope, though progressive, is at present much too small to have any bearing on the price of copper. The production in the Lake Superior district was 5,300 tons in 1865, and it appears that it reached its maximum during 1861 and 1862. Should prices in America decline to our present

maximum during 1861 and 1862. Should prices in America decline to our present level, the production will probably be much reduced from what it was even last year. California, next to Chill, seems deservedly to attract most attention, but the late high prices have not been upheld long enough the late high prices have not been upheld long enough to stimulate mining very much in that quarter. The cost of labor, transport, freight, etc., is so much higher there than in Chili, that only rich mines can be worked, unless prices in Europe and America are high. The export of ores from California was last year about 24,000 tons of very unequal produce, and averaging not over 18 per cent., equal to something under 4,500 tons of fine copper. For the present, therefore, at least, its production does not count for much in the position and prospects of copper. Looking, then, to all sources of supply, it would seem that we cannot count on any increased production elsewhere to coun-terbalance the expected deficiency from Chili. Taking the world's production as stated at 90.000

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Mining Summary.

Nevada.

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inclusive, amounted to \$737,547. **Humboldt.**—From the *Register* of May 19th, we glean the following : Two assays made this week of quartz from the Silver Ballion claim show \$140 and \$198 the ton. The ledge now working continues looking the same, only gradually widening. . . During two weeks past, several parties have been making discovery, or re-locations, rather, of very promising auriferous quartz veins in the range which terminates some thirty miles down the valley, in Table mountain. The ledges are of good width, well defined, and very rich in free gold. Some, if not all, of these ledges had been located years ago ; but the proper amount of work to keep title good not having been done, others have got hold of them. . . The Ruby Silver Company, owning in Pine Forest District, thirty miles above Blackrock, has an excellent ledge. Voshay has put a shaft down between casings, and the walls of the ledge make just the right walls for the shaft.—five feet apart. The entire ledge is infused with the ore, which works, without assorting, \$30 in silver, and shows by assay fifty per cent. copper. Pine ledge, and a fine ereck of probably 1,000 inches of water, permanently, runs at a distance of three hundred yards from the ledge.... The Volunteer is the name of a ledge in Sierra (Cal?) owned by Captain Conrad and others. A small lot of quartz from it was worked this week at Holt's mill. It turned out a good-sized brick of crude bullion, in which gold shows plentifully. The value has not been ascertamed, but Balbach is to melt and assay it to-day. It is estimated to pay \$40 to the ton-gold. The bullion we saw was the result of unas-sorted rock, taken in mass from the full width of the ledge—almost six feet. Battle Mountain.—Dr. Blatchly having just re-turned from this new copper district, states that it lies

Battle Mountain .- Dr. Blatchly having just re-Battle Mountain.—Dr. Blatchly having just re-turned from this new copper district, states that it lies one hundred miles north of Austin, west of Reese Riv-er, and south of the Humboldt, and near the point where it receives at present the waters of Reese. It lies in a range of low nills tending northeast and south-west, which are separated from the northern termina-tion of the Shoshone range of mountains by a valley from ten to tifteen miles broad. The mines which have

been located lie in two groups, about eight miles apart, and the intervening portion of the range is apparently barren of mineral. The southern group, in which are located the Virgin, Troy, Mary Louiss, etc., is situated on the east side of Copper Canon, a low, smooth hill, about three-quarters of a mile long by half-a-mile wide. The ledges are encased in porphry, and the hill presents a regular plexus or network of veins of varying size, containing the richest and most beautiful of copper ed oxide, greeen and blue carbonates, and, in one instance, pure sulphuret of copper, a most elegant specime of which may be seen in the cabinet of Doctor Blatchly. Except the sulphuret, these ores are always found near the surface, and the same relative different veins of solve. The veins lies of copper, a most elegant specime of which may be seen in the cabinet of Doctor Blatchly. Except the sulphuret, these ores are observable at various depths in veins of copper that occur in visms of silve. The veins lies of coper had cocur in visms of silve. The veins lies of coper had cocur in the portion of the district; at they will be found to be branches or spurs from one vast vein, and in any part of the world after that occur in this portion of the district; at they be readily entered over good natural roads be for that occur in the southern group extends over a greater area, and the silve they do not apparently individe the presence of veins. This section of the district, and be readily one small spring having horthern group extends over a greater area, and the vines are larger, better defined, and of more uniform indeveloped, their width could not be assertained with similar to that found in the southern group, and the southern group extends over a greater area, and the greater developing to exhibit fully their various of the district as groups that been found, and in one instance only divide and permanence of the veins were apparently of great with simes are larger. Detter defined, and of more uniform indeveloped, their width

mines of this group should prote upon development, equal to their superficial indications, they will be ranked among the foremost copper mines of the world.
Palmetto.—The Enterprise of May 22d, states that this new quartz mining district is twenty miles south of the Silver Peak District, in the southern portion of the State. By Mr. W. H. Douglass, who has just arrived from that section, we have been shown, says our contemporary, some very fine specimens of quartz taken out of the Sylvan, Champion, Silver Circle, Criterion, Eclipse, Prize, Euby, Sandusky, Black Hawk, Mountain Gem, and Commercial lodes. The locations are 1,000 feet each. The ore exhibited to us shows copper, coold, galena, and antimomial silver. It takes shows horn silver: From assays mode from \$100 to \$300 in gold to the ton, and from \$45 to \$2,427 in silver. The balance of the ledges mentioned assay from \$30 to \$3000 per ton in gold and silver, the ore is cqual, if not superior, to that from the famous Diana, at Blind Springs. The ledges are found enclosed on either side in a formation of granite and silicious slate. The immediate enclosing walls are toogh black clay, similar to those of the distance of a mile or more, running in a course about northwest to southeast. The ledges are from two to twelve feet in width and are thought to be of a more permanent character than those of Silver Peak District. There is plenty of nut-pine wood and water surrounding these mines. Bunch grass also exists in abundance in the district thus far.
Silver Peak.—The pariy of men who left Virginia City some the substrict.

Silver Peak.—The pariy of men who left Virginia City some three months ago for the Silver Peak and Red Mountain country have been at work upon the New York ledge, located about four miles west of Silver Peak, and have struck very rich ore. This lode is re-ported to be about fifty feet in width, and shows thous-ands of tons of the very best looking quartz in the croppings. The company known as the Red Mountain have struck very rich ore. This lode is re-ported to be about fifty feet in width, and shows thous-ands of tons of the very best looking quartz in the croppings. The company known as the Red Mountain have sold out their ledges to a Mr. Martin for a big sum. This gentleman intends to prosecute the work upon them with vigor. The Douglas and Warren com-panies have also sold out their lodes to Catherwood of the New York and Silver Peak Corporation. Othersales are reported to be have been made to parties whose ammes we do not know. Our informant states that great confidence exists in this district as regards the wealth of all the ledges in that section.—*Enterprise*. Clan Alpine.—The *Enterprise* mentions having

wealth of all the ledges in that section. — Enterprise. Clan Alpine.— The Enterprise mentions having seen a beautiful bar of bullion from the McGregor ledge, Clan Alpine District, Nevada, owned by a New York company. The "brick" weighed 302 ounces, and there is reputed to be plenty of material in the ledge to manufacture plenty more of the same sort. Lander.— The Reveille of May 23d says : The For-tuna mine yields the richest chloride ore. About five ons have just been reduced at the Midas mill, and the pulp assays yielded at the rate of \$943 per ton—the mill guaranteeing to work up to eighty per cent, of the as-say.

ay. Twin River.—The Nye County News, of May 19th

notices a rush to Twin River district, now the summit is in good condition for travel, and adds : From an ex-cited prospector, who returned from Twin River a few days since, we are informed that the Buckeye mine, North Twin river, is taking out ore so rich that it is almost pure bullion. We are also informed that work is going ahead on the mill and mine of the Murphy company. There will doubtless be a large population in that section the coming season.

in that section the coming season.
North Twin River.—Some valuable mines in this district are about to be worked by a Pennsylvania company, viz. the Fairmount, Bigler, and Twin Ophirs No. I and 2. The Reveille says : Prior to the purchase of the mines, they were frequently and thoroughly examined, under the instructions of the present owners, by competent persons, the result of which may be summed up by selecting the following telegram from Messrs. Boalt and Stetefeldt : "Austin, January 29th, 1866. Have examined Fairmount and Twin Ophir mines, North Twin River District, and find them large and well defined ; consider them first-class. Selected ore ourselves—Fairmount, \$430, and Twin Ophir, 866 per ton." Assays of ore from the Bigler, taken from the croppings high above the surface, ranged from \$30 to \$50 per ton. All the ledges crop out boldly, and have been traced nearly their entire length. They lio parallel, and at a considerable elevation above the ravine or creek ; and it has been estimated that a tunnel a thousand feet. At the point where the Fairmount the deen opened and cut transversely, the vein was found to be nearly ten feet thick, the lower half of which exhibited the inest quality of sulphuret ore. Of five assays of this ore, the yield varied from \$230 to \$500 of silver per ton, and as high as \$400 for gold. The assays showed no base mineral obtained from the Fairmount seems to be remarkable, containing only silver and gold in a hands and sufficient and the deges, but contain more or less base mitted to the rank of first-class, and good and systemation.
Toiyabe.—Says the Reveille of May 22d: We have North Twin River -Some valuable mines in this

Toiyabe.—Says the Reveille of May 22d: We have just been called upon to share the joy of a happy miner, whose mine has yielded its first pale fruit. Yesterday afternoon, Mr. C. C. Land, laid upon our table a hand-some silver brick, of the value of \$227.56—the first yield of the Colfax ledge, South Eend comty. It was the product of only 1,450 pounds of surface ore, reduced by Varney at the Ware mill. The ledge lies high up in the Toiyabe range of mountains, where they flank Smoky Valley on the west, and is scarcely seven miles south of Austin. It belongs to Capt. A. L. Page, C. C. Lane, and Albert Rose. The property had been sent to the East for sale; but it wouldn't sell, and the own-ers resolved to bring it to fruit by their own exertions and means. We believe they have done wisely, and we wish that other owners of mines would conclude to do likewise. If the mountain won't come to Mahomet, it is sensible in Mahomet to go to the mountain. -Says the Reveille of May 22d : We have Toivabe .-

Santa Fe.—Another mill is about to be erected about a mile cast of the Sterling mill, and near the sink of the Big Smoky Creek. The company that is engaged in erecting the mill owns the Mother ledge in the Santa Fe District, about three miles from the mill site. This mine, as its name indicates, is regarded as the parent vein of the district; and as it has been steadily worked for some time, a large amount of good ore has accumulated.

steadily worked for some time, a large amount of good ore has accumulated.
Bunker Hill District.—We have received, says the Reveille, May 18th, the following data in relation to this district, from a person who is well advised of its condition, which he requests us to publish in order to correct the erroneous impressions caused by Mr. Stuart's explanation of the cause that led to the closing of the Sterling Company's mill at Kingston, of which he result of the working at that mill of eight tons of ore from the Brown ledge in the district, as follows: silver, \$394 76; gold, \$57 64; total, \$392 40; or an average yield in gold and silver per ton of the value of \$49 04. According to his statement, Mr. Stuart expressed the origino that he could work such ore in his water power mill with profit at the same time that the parties farming the ore had raised the price from \$5 to \$15 per ton, and assigned for the cause of stopping the mill that the parties farming the asset of the same time that there was plenty of ore in the district. The writer says further, that the assay office of the National Bank, gave of silver, \$67 54; gold, \$10; being the bandsome average of \$77 54 per ton. And he concludes by stating on the authority of one of the owners of the Brown ledge, that there are over 300 tons of the same againty of ore on hand, and an extensive quantity in sight.

signt. Wirginia District. We gather the following items from the Territorial *Enterprise*: The Imperial is now running a drift at the 50-foot level westerly towards the red rock portion of the ledge. At present this mine is considerably troubled with water in their lower level, but have managed so far to keep it under. . . . We examined, on yesterday, a small lot of very rich silver ore, taken out of the Kentuck mine, Crown Point Ra-vine, at the 275-foot level. It was very rich, and a ton of the same sort was estimated to be worth \$10,000. There is more of it.

There is more of it. Crystal Rock.—A few days since, says the Enter-prise, 19th ult., a small lot of quartz was brought into one of our mills from this section, which is some 230 miles from here, in the southern portion of Nevada, which worked by mill process \$390 to the ton. From the result, the owners of ledges there are very jublant. The work upon all the ledges has been stopped on ac-count of the failure of the successful working of the New York Company's mill, now waiting for some im-provements that are to be added to the machinery,

which it will probably take some four months to com-

Kearsarge.—Recently Van Wyck & Sanchez, Gold Hill, received an amount of crude bullion which, when melted and assayed, formed a "brick" weighing 113<u>4</u> pounds avoirdupois, and was valued at \$1,769 15.

California.

pounds avoirdupois, and was valued at \$1,769 15. **California Revala**.—According to the Grass Valley Union the new machinery on the claim of Frank Monroe & Co., works to a charm. The inclue is now in some forty feet, and will be pushed to a depth of one hundred and ifty feet for the first level. . . . The Illinois and Wis-somain companies have been consolidated into one, and work will now be pushed on rapidly. . . . The new hoisting works at the Alison Ranch are nearly ready. The southern incline is down some three hundred feet, and cuts a very handsome ledge between the upper and ower levels. This ledge has been named the Carriboo, and promises to be richer than anything that has yet been discovered. . . . The National says: A vein of very rich rock was struck a day or two seince, in the Soggs mine, on Deer Creek. The rock which the com-pany have been taking out heretofore, paid about \$40 per ton. Rough and Ready, although if has there works in the institution of the structure of the south or thirty ledges in its vicinity, which would pay for working, is at a standstill for want of capital to de-velop them. . . . At the Ione mine, the amount reali-tion a week's run, was one hundred and eighty onnecs. The comparatively speaking, yet unopeued. . . North San Juan is rising again. All the claims there, sys the *Transcript* are paying nearly double their old vield, a greet many new ones are opened, and thou-sands of dollars have been taken out every week. There is not a house for rent there, and the merchants are all doing a very healthy business. . . . The Nev-there is not a house for reat there, and the merchants are all doing a very healthy business. . . . The loca-tor of the first northerly extension of the Fox copper ledge have been offered very sould sur fils claim, when the struck into a lead of gravel, which had been cover-ed up yais of one hundred feet each. Five or six com-mands on the undred ledge struck on godd bearing upper thealter torning four w

ago. Tulare.—A Kern River correspondent writes : The quartz discoveries are of daily occurrence, and rock that will not "horn out" at the rate of \$40 per ton is passed by with contempt by the prospector. Among the lodes opened and paying, I may mention that of Mills, McDonald & French, Parson Higgins, Tucker & Collins, all worked by arastras, and, especially the lode first mentioned, paying well. The Long Tom mine, owned by the Roberts Bros., is, I am informed, paying large profits. This lode is from six to nine feet in width of solid gold-bearing quartz. The main and air shafts, about forty feet apart, are down about one hundred and twenty feet. The company have a ten stamp steam quartz mill, crushing day and night. A quartz mill to do custom work is much needed here. . . . The Piute is a new district, three mills east from the Hot Spring Valley. Rich prospects have been found. . . . The Delta's correspondent writes from Inyo. Almarin B. Paul's mill will be in operation in a very few days. The Fearsarge Company's mill is also nearing comple-tion. There is enough rock in sight to run a twenty stamp mill a year. The Chrysopolis Company are work-ing ahead prospecting its still going on, and new dis-coveries are constantly being made. Some of the rock of Fish Spring district is now being worked in the mill of Thomas Passmore. Tulare .- A Kern River correspondent writes : The

of Fish Spring district is now being worked in the mill of Thomas Passmore. Bierra.—The Messenger, of May 12th, says : From the hydraulic mining camps we hear that the water has nearly failed with most of the companies, and though it fails early, the yield of gold has been unpre-cedented. At Eureka, we hear the water cannot hold out more than a couple of weeks, and it is probably the same elsewhere. Many of the diggings will return a net profit of double their former yield, and money will be more plentiful than for several years. . . A corres-pondent at Alleghany says Gov. Newell is below, and report says he intends putting up a new mill on his re-mill, with a hurdy-gurdy wheel, running four stamps, will capacity for more. The General Sherman ledge, owned by Bob Waters, prospects well. The Oak Flat Company still continue to get encouraging prospects, and intend to start their mill soon. The Fao Simile Company shave resumed operations. The Union com-pany are running their mill with encouraging results. Rice, Wright & Co., are recuecitating the old Fremont Company, which will doubtless prove highly remuner-stive. The Masonic is repairing and consequently working only one-half their force. Their prospects are cheering. . . . Messrs, Cole & Stevens, of Brandy City,

have just completed the building of two or three miles of mining sluices. The Marysville *Appeal* says that last week they cleaned up two of the upper flumes and took out 420 ounces of gold. . . Jim Messerve has sold his share (one-half) of his lately discovered quartz ledge, to an Eastern company for \$1,000.

sold his share (one-hail) of his lately discovered quartz ledge, to an Eastern company for \$1,000. Trinity.—The Journal says: The gold of Canon Creek will be very large this year-much larger than it has been for several years past. The ditches owned by Jos. Depinett, Flowers & Co., Major Price, and Adam Berger, are flowing full of water. The new tier of claims lately opened along the hillside below town, are paying well. Mark Knowiton & Anstead are taking out a hundred dollars a week, and other claims pay regu-larly from \$6 to \$10, and an onnee a day to the hand. ... Wm. O'Brien and Joseph McIlvane started from Weaverville for the Atlantic States on the 2d of May. They had been mining on New Hiver during the past winter, and the amount realized, added to that for which they sold their claim, reached the sang little sum of \$5,300, which they carried with them in New River dust, the particles of which varied in value from 50 cents to \$50. On the 5th of this month Steve Noble, Albert Pruett and John Keach, sold at Greenhood's Bank a pint dipper full of the same kind of dust. Four pieces of this fast lot weighed over \$500—the largest being worth \$199. Albine.—The workmen on the Mowyer are now in

Alpine.—The workmen on the Mowyer are now in over seventy feet with the tunnel, and making good headway.... The last load of four tons of Buckeye No. 2, had been hauled to the Pioneer mill for a work-ing test.

Not. s, had been hadred to the Pioneer min for a working test.
Amador.—The Dispatch having received specimens of rock from the Mount Echo and Tussimita claims, on the celebrated Scapstone, or tale lode, located on the divide between Dry creek and Horse creek, about four miles below Drytown, thus speaks of them : The specimens are studded with fine gold, and have the appearance of the richest kind of specimens of guartz rock; and yet the substance is entirely clear of grit, and so soft that blocks can be whittled or shaved into any imaginable shape. We are credibly informed that wentyfour hundred pounds of the rock, which was crushed in one of the quartz mills near Amador City, yielded thirty-six dollars and twenty-five cents. It has been found by actual experiment that the rock can be ground in a common flouring mill a the rate of one hundred pounds per minute. In fact 1,300 pounds were crushed, in a flouring mill act he sole has been sunk to a depth of fifty feet, and the vein is ascertained to be about twenty-two feet in width.

Shasta.—Noah S. Batchetler, who arrived in the country on April 4th, recollecting the quartz he saw in Shasta Countr, in 1531, proceeded directly to the vicin-ity of Ellsworth's saw mill. He "struck it," and located three ledges, which he named the "Chicago Series." "The news of the discovery spread like the wind," says the *Courier*. The editor of that paper visited the ground, and picked up a piece of the rock, which seemed to be all alike, and had an assay of it made in town. The result makes the value \$525 to the ton, in silver. It was not tested for gold, although it is thought to be rich in that metal also. A new district was created and named the "South Fork.". . . The same paper, speaking of the Washington Quartz Com-pany, says; During the space of a year, the mill has crushed 1,400 tons of rock, from which the company have received \$15 per ton in coin over and above all ex-penses for melting, assaying, brokerage, express charges, etc. Shasta .-- Noah S. Batcheller, who arrived in the

Tuolume.—The Courier states that a five-stamp mill, with capacity for ten stamps, will at once be crected on the Starr King Calam near the Grizzly. . . . Silver one from Columbus district yielded by assay 116 ounces to the ton. . . A 10-stamp mill has just been completed for the Mississipt vein, at Oak Flat. . . Placer mining is carried on in and around about the city of Columbia to a greater extent than most people throughout the country dream of—in fact, it is centered now up in this district.
Plumas. - A correspondent of the Quiney Union writes from East Branch : The Taylor Hill Company are not working their claims this season, but they are selling all the water their dick can carry. . . . The Bunker Hill Company have plenty of water, and the opening in their claim is growing large very fast. McElroy & Co., on the heach above Long Bar, are doing well. Butler & Co.'s claim, at the Junction, prospects as well as ever; they have one of the best claims on the river. The Pea Soup Company are at work "bottoming" up, and are getting good pay. Tuolumne.-The Courier states that a five-stamp

"bottoming" up, and are getting good pay. Mariposa.—Coulterville correspondence of the Gazette states that H. G. Cowan & Co. have gone to work in earnest in the old Marble Spring vein. . . . Wright & Spencer have started their new mill on the North Fork, near the Bower Cave. . . . Captain Arni is crushing rich rock out of the vein recently struck by him, and now owned by himself and John Hite and other partners. other partners.

Thin, and now owned by minisch and your fine and other partners. Calaveras.—The Courier says: Prospecting is still on the increase. We have heard of several new discov-eries being made within the past week-real, bona fide gold-bearing quartz leads—upon the most of which men are already earnestly at work. The sulphuret lead, in Dutchman's Gulch, is being systematically and rapidly developed. A large number of men are employed in this mine, and it is the intention of the company to erect a mill the present season. The custom mills are all crowded, and there is now more rock out than they can possibly crush during the season. . . . The Gold Hunter, in Salt Spring Yalley, is now yielding rich rock. . . . The new quartz discoveries at O'Byrne's Ferry had caused a considerable excitement in Copperopolis. Yuba.—The mines at Brown's Valley are again

Yuba.—The mines at Brown's Valley are again coming into favor. The Pennsylvania, Donnebrogue, and Yuba, will be crushing rock in the course of three

weeks. The Jefferson Company is still taking out rich

Placer.—At Dutch Flat Messrs. Judd, Kinder & Stewart, composing the Gold Itun Company, lately cleaned up \$2,700, after a run of twenty days, ten hours per day, with 300 inches of water.

Contra Costa.-The Welch quicksilver mine is said to be developing promisingly.

Montana.

IVIONIANA. The Post, of May 19th, says of the Mesler lode: This fine piece of quartz property is now on the way of thorough development. The Foster mill (24-stamp) will soon be up from the river, where it has lain all winter, and will be located on this lode, which is right in the gulch below Summit. Miles Kavanagh, of this city, has 225,000 lodged to his credit, on account of a sale made of his interest in the celebrated I. X. L. lode.

Silver Bow Gulch .- The Post says : We are glad Silver Bow Gulch.—The Post says: We are glad to report that the claims on Silver Bow Gulch are rising rapidly in value, on account of striking the real pay channel and the discovery of auriferons deposits in the bars lining the creck. A company of eight men are now engaged on a ditch which will supply water for the slucing of about 1,200 acres of dry diggings, lying be-tween Brown's Gulch and Silver Bow Creck. There is a fine prospect obtainable at the very surface of the ground. All the company, and those outsiders who have prospected the gound, feel sure that it will yield from \$25 to \$35 per day to the hand. A friend of ours, woning an eighth interest in the ditch, was offered \$800 in bankable dust for his share, before he had paid a single dollar of news for the immigrants. Mill Creck.—This flourishing section of fine quartz ground, abounding with agricultural facilities and re-

Will Creek.—This fourishing section of the quartz ground, abounding with agricultural facilities and re-quisites of the highest order, is at present progressing rapidly, both in a mining and in a farming point of view. . . A 50-stanp mill is now on the road to this creek from the Eastern States.

Wisconsin Gulch. - Bill Fairweather has struck Wisconsin Gulch. - Bill Fairweather has struck it again. His hydraulies at Wisconsin gulch are pay-ing. The first clean up was one hundred ounces to a fortnight's run; the second time, the weather was favorable and all in working trim, therefore, in four days, one hundred and fifty-six ounces were washed out. This is pretty well for poor folks. Alder Gulch.-The rapid melting of the snow is causing great injury to miners, by the sudden theoding of their claims.

Alder Gulch.—The rapid melting of the snow is enusing great injury to miners, by the sudden tooding of their claims.
Battana Post, May 19th, we condense the following : "During the present season we shall see the beginning of better times in Eannack. Mr. Hopkins, of the Butter times in Eannack. Mr. Hopkins, of the Butter times in Eannack. Use set up on the Huron, which is supposed to be one of the best silver lodes in the share the base of the base

not expect for Bahnack and Montana cities. **Reynolds City**.—Correspondence from this portion of Montana states that: "lock and dirt mixed with the precious ore abound over a large portion of this place, and indications of good paying ground are daily found. The only drawback to this commodity is almost as hard to get as money in thus town. Goods are plenty, and sales dull, at about the same prices you sell for in Virginia. The miners are taking out very little money

yet; they are opening their claims, and all seem to have fair prospects. If this is the case, after a while there may be a lively camp and plenty of money. Many people are transping over the country, and com-paratively few are employed. Not a few are going to Harvey's Gulch, some forty miles from here; "big thing" reported about it.

Baray's Gulch, some forty miles from here; " big tharey's Gulch, some forty miles from here; " big tharey's Gulch, some forty miles from here; " big tharey's Gulch, some forty miles from here; " big tharey's Gulch, some forty miles from here; " big that's the some forty miles from here; " big that's the some forty miles from here; " big the work is a head of nearly 90 feet, did good execution during the work, although delayed several times. They have most steptical that that is the thing after all; during the work although delayed several times. They have most skeptical that that is the thing after all; during the week two others got into operation on the same spinces are also running. The hydraulies, at present and a fourth will soon be ready. Several ground finces are also running. The hydraulies, at present are sinaply cutting down the heavy bank. Mallory's far is also opening indely, and bids very fair for the fa-there. On the time, and the bars on White's Gulch abut an enrest, indeed, of what hes at the bottom of atter areast, indeed, of what hes at the bottom of the main gulch. New York Gulch is still and justly atter at so running, and the bars on White's Gulch, and the abut an enrest, indeed, of what hes at the bottom of the main gulch. New York Gulch is still and justly atter the two is rapidly improving, and the claims indicate space feet of bed rock; and, as the streak is very is from failed. Greenhorn Gulca, coming into the main gulch just at the upper end of town, is of great is got able, but at the upper end of town, is of great would at it is washed. Greenhorn Gulca, coming into the the ding as 516 to the pan has been taken out. The drains to is own story. The great quartz excitement near and by ond from the continue is other ledges as rich as the former, continue to be discovered, and it will soon tell by ond from the gen has been taken out. The drains to is the being rapidly completed, and it will soon tell by ond from the gen has been taken out. The drains to is the being rapidly completed, a

Colorado.

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Illinois.

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Virginia.

cvery hand. The mines last many tons of good quartz, cverif daway as specimens by the soldiers ; carl loads would disspect in a single day of the kinds that show-d was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-der was taken away by the robal authorities in the sum-ting in the main heaft and inform. The ten opened the win where it cropped out, a half a mile to hen north, and worked it till the final stoppace. The was not able to hear the work in the secon above the sum of the source in the Work mine; it was abandoned come years before the war. I was told that the vein runs in a northeast and southwesterly course, and has been opened on the surface about 500 feet. Louding tar-net the work supped about 500 feet. The was operated by a very fine engine of about 500 feet. The was operated by a very fine engine of about 500 feet. The supped about 500 hears-power, the work supped about 500 feet. The supped about 500 hears-power, the work supped about 500 feet. The supped about 500 hears-the work supped about 500 feet the supped about 500 hears-the work supped about 500 feet. The supped supped about 500 hears-the work supped about 500 feet. The supped s

There is known to be valuable minerals, iron, signs of lead and copper, soapstone, plumbago, etc. The lands can be bought cheap, are lightly taxed, are bordered on either side by as good farming lands as there are in Virginia, and lay at the feet of the northern capital-ist; and yet they go and scatter their money in the far West, without looking at Virginia! ALEXANDRIA, Va., June 13th. E. A. DAYTON.

Idaho.

West, without looking at Virginial ALEANDRIA, Ya., June 13th. E. A. DATTON.
HALLANDRIA, Ya., June 13th. S. Dattor, M. Dattor, A. Dattor, J. Dattor, J. Dattor, P. Dattor, J. Dattor, J.

being an average of over \$153 per ton. **Boise Basin**—A correspondent writing from Idaho City says: "Times are brisk in the Basin. Returns from the sluices are numerously reported at from \$2,000 to \$15,000 a week; every available inch of water is be-ing used on the hills and in the gulches. The creeks are yet too high to be worked advantageously, but the surplus water is fast running off.... The White Boys' claim on Bannock Bar cleaned up, on Saturday last, over \$24,000. This don't look as though Boise had played out. Wages are \$7, and laborers scarce at that."

Ceorgia.

Correspondence from Augusta, Georgia, states that te gold mines at Dahlonega, Georgia, are about to be orked with improved machinery.

Oil Summary.

Illinois.

Illinois. The Charleston (III.) Courier says : The Charleston Petroleum and Mining Company, who are now boring a short distance north of town, struck oil in small quan-tities, the latter part of last week, at a depth of 140 feet. They first came to a strata of slate, then a thin vein of stone coal, and at last accounts were boring in limestone. When they get through the latter, oil is expected to flow in abundance.

Maine.

Several oil springs have been found near Parker's Head, in Maine, on the farm of one Samuel D. Reed. Besides this, he says that coal is constantly being broken off from some coal ledge in the sea and being washed ashore. This coal is bituminous, and will blaze by holding a candle against it.

California.

California. The Napa Register notices a curious discovery at the head of Capel Valley, about fifteen miles from that place, a ledge of white quartz, in which are small cavi-ties containing petroleum – aspoonful or so in a place– here and there imbedded in the solid rock. A company, called the Aladdin Petroleum Company, has been form-ed for the purpose of prospecting.

Ohio.

The Oil News states that a gentleman lately returned from a visit to Muskingum county, Ohio, represents the oil excitement as being intense, and not without

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cause. He thinks it is likely to become one of the most stress of the spectral productive petroleum regions in the State. At the village of Rural Dale, about fourteen miles south of Zanespire wells have recently been bored, and only our proved a failure. Other wells are on the point of construction. The pumping thus far has been by means of the spring-pole and treadle, but the yield is comparatively large. Steam engines will be substituted as

GOLD.

COMPANY.	SHARES.	STOR K.	SITUATION OF MINE.	SECRETARY & PLACE OF BUSINESS.	COMPANY.	SHARES.	STOCK.	SITUATION OF MINE.	SECRETARY & PLACE OF BUSINESS.
Acadia			Nova Scotia	H. W. Nelson, 24 City Ex., Boston.	Liebig	200,000	\$1,000,000	Colorado	Coul Danah 110 Water V V
Ada Elmore	_UNP,UNPD	2.00.00	SOURD FOISE, IGADO,	S. Lawrence, 154 b way, N. L.	Lake Major	12,000	600,000	Nova Scotia	12 W Farles 24 Wall N V
mber	390.000	SAND ORRE	Greene Co., Penn	Geo. W. Grove, 276 S. Third, Phil	Mammoth	50.000	500.000	Colorado.	J. Jarrett, 41 Liberty, N. Y.
Albion	T(M) (HH)	11111 836	Illinois Central Dist. Col	H. W. Nelson, 24 City Ex., Boston J. Stanton, Jr., 25 Nassau, N. Y.	Manhattan	100,000	1.000.000	Colorado	 Fred. Franck, 113 Water, N. Y. G. W. Farlee, 34 Wall, N. Y. J. Jarrett, 41 Liberty, N. Y. W. R. Lothrop, 172 R'way, N. Y W. D. Briggs, 11 Phe'x B'Vg, Bos Jas, K. Selleck, 157 B'way, N. Y
A countral of	214 8 6 85 88 9		shorbrooko (anada k	G H Morrison 17 Nassau N. V.	Massachusetts	250,000	1,200.000	Gilpin co., Col	W. D. Briggs, 11 Phe'x B'l'g, Bos
Atlantic				Chas. Barett, 13 Doane, Boston. J. N. Sewall, 8 Broad, N. Y.	Merchants	30,000	600,000	Alturas co., Idaho	Jas. K. Selleck, 157 B'way, N. Y
Atlatic & Pacific	20,000	5.000.000	Humboldt T., Humbolat oo.	J. N. Sewall, 8 Broad, N. Y.				B'r C'k, St. Bse., Idabo	
American	60,000	600 000	Gregory Dist Nevada Dist. Col	H Foles 71 B'way, N Y	Montague	50,000.	500.000	near Halilax, Nova Scotia	C. B. Cowling, 39 Kilby, Boston.
incrican riag.	200,000	1.000.000	On Comstock Lode	H. Foles, 71 B'way, N. Y. J. Chapman, 71 Broadway, N. Y. New York. New York	Mount Alnine			Griffith Dist., Clear C'k. Col.	J. B. Randol, N. Y.
Baltie			Colorado,	New York.	Mount Vornon	500 000	5 000 000	Mt V & Mam'th Dist Nev	25 Park Row, N. Y.
Bates & Baxter .			Celorado Colorado	New York.	Mount Vista	50.000	500.000	Samada Blo Grogfy Col	J. Chapman, 23 Nassau, N. Y. A. L. Guerber, 54 Wm, N. Y. Thos. Dunlap, 413 Chestnut, Phil
Bay State	200,000		Colorado	Lem'i Bangs, Boston. F. W. Capen, 44 Ex. PL. N. Y. D. Littlejohn, SI John, N. Y. J. B. Post, 20 Ex. PL, N. Y. J. Stanton, Jr., 25 Nassau, N. Y.	Monto Christo	100.000	2 000 000	White Pine District Nev	Thos. Dunlap, 413 Chestnut, Phil
Benton	50.000	5 HOLD DEN	Gilvin co. Col	D Littleight SLJohn N V	Montezuma	100,000	500.000	Colorado	F. B. Webster, Boston.
Beacon		500.008	Halifax co., Nova Scotia	J. B. Post, 20 Ex. PL, N. Y.	Montrose	100.000	1.000.000	Clear Creek co, Col	C. A. W. Sibley, 80 B'way, N. Y
Bobtail	100,000	1.000.000		J. Stanton, Jr., 25 Nassau, N. Y.	Morning Star	5.000	5,000.000	Owyhee co. Idaho	E. M. Barnum, 137 B'way, N. Y.
Briggs	10,000	1.000,000	Gilpin co., Col	 J. Stanton, Jr., 25 Nassau, N. Y. D. Littlejohn, 81 John, N. Y. O. H. Conover, 219 Pock st., Phil. 	Mexican Pacific.	100.000	10,000,000	Mexico	 F. B. Webster, Boston. C. A. W. Sibley, 80 B'way, N. Y. E. M. Barnum, 137 B'way, N. Y. J. Mackie, 88 Wall, N. Y. 606 Mont, San Francisco. School Pactor
Bradshaw	100.000	1,0000 000	Yavapai County, Arizona	L Dange 99 Ding N V	National	200.000	3.000.000	on So. Bouider C'k. Col.	31 School, Boston.
Burroughs	200,000	1.000.000	Rumoek Montana	 H. Conover, 219 Nock St., Phil. L. Baugs, 22 Pine, N. Y. B. Iberty, N. Y. P. Whitney, 19 Lindall, Boston J. P. Whitney, 19 Lindall, Boston. A. Call, 7 Pheenix B'Pg, Boston. B'Way B. Liberty 	Nevada Star			on So. Boulder C'k, Col	25 Pine, N. Y.
Bullion Consoli.	300,000	300.000	-ammit and Clear Creek. Col.	J. P. Whitney, 19 Lindall, Boston	New England	00,000	190.000	Black Hawk, Col.	J. Weatherbee, Jr., Dostob.
Calvin	200,000	1,000.000	Clear Creek co., Col,	J. P. Whitney, 19 Lindall, Boston.	New Mexico			near SantaFe	W A Fort 111 State Boston
Canadian				A. Call, 7 Phœnix B'l'g, Boston.	New Gregory	20.000	5 000 000	Gld Capon D't Land on Nor	W. A. Kent, 144 State, Boston 10 Pine, N. Y.
Chem. Gold&S.R	* * * * * * * *		****	64 B'Way	New York Dist.	50,000	500.000	Austin, N. Y. Dist., Nevada	71 B'way, N. Y.
Chebucto	100,000	500.000	12 miles from Halifax	J. E. M. Gilley, Boston.					
Clarendon		500,064	to miles from Halifax	H. Doane, 41 State, Boston.	N. Y. & Nevada	100.000	1.000.000	Nevada	 F. E. Roelison, 74 B'way, N. Y J. J. Osborn, 30 Pine, N. Y. F. E. Roeloison, 78 & 80 B way. G. H. Munroe, 106 B'way, N. Y. Iso Chatham, N. Y.
Chase	5,000	500,000	Colorado	W. E. Lawton, 81 John, N. Y.	N. Y. G Min'g	100,000	1.000.000	Colorado	F. E. Koelolson, 78 & 80 B, way.
Central Gold M.	29,000	1.000,000	Central City, Col	L. Bangs, 17 Nassau, N. Y.	N. Y. & Eldor'do N. Y. & Idaho	250.000	2.500,000	Idaho.	180 Chatham N V
Central Mining.	100,000	L OLDE CHUR .	5 000 A Famino Piv C F	 W. E. Lawton, 81 John, N. Y. L. Bangs, 17 Nassau, N. Y. 46 Exchange Pi., N. Y. Wm. B. Fowle, Boston. 	N Y & Santa Fe			Nevada	New York.
					N.Y. & Owyhee		1.000,000	Nevada. Owyhee co., Idaho Owyhee co., Idaho	6 Piue, N. Y.
Colonial.				W. N. Ely, 7 Trav'r B'l'g, Boston.	N. Y.& Oro Fino	10,000	1,000,000	Owyhee co., Idaho	137 Broadway, N. Y.
Colorado Boston.			Colorado	W. N. Ely, 7 Trav'r B'l'g, Boston. R. C. M'Laughlia, 60 State, Bos'n. 12 Pine, N. Y. Nar, York	N. Y. & Reese R.			Nevada	New YORK.
Colorado N. Y.,			Colorado	12 Pine, N. Y.	N. Y. & Reniew	*******	***** ****	Nevada. Gilpin co. Col	New York
Coleman	200.000	3 000 00	Colorado Austin City, Nevada	10 Pine X Y	North Clear C'k.	100.000	1.000,000	Gilpin co., Col	J. Francis, 80 B'way, N. Y.
Consuelo Cold				and Willighten.	Nova Scotia				Chas. Barrett. 13 Doane, Boston
Consol Gregory					N. Y. & Nova Sc	100,000	1 000,000	Tangier, Nova Scotia	 Frances, so B'way, N. Y. Chas. Barrett, 13 Dwane, Boston Jos. E. Gay, 3 Hanover, N. Y. 115 B'way, N. Y. 100 B'way, N. Y. Chas. Earrett, 13 Doane, Boston. Mosses A. Honnock, 45 William.
Cook & Kimball	1.000	150,000	Celorado	W. W. Baldwin, 35 Wm., N. Y. J. C. Stocker, 137 B'way, N. Y. New York.	National S Min'g		1,500.000	Normala & Wa C Digt Col	115 B'way, N. Y.
Copalinshee	250,000	5,000,000	Parke co., Col	J. C. Stocker, 137 B'way, N. Y.	Occidental	5.000	000,000	Acyada & Ins. C. Dist., Cot.	Chas. Barrett, 13 Doane, Boston,
Corrisannee Commonwealth	100,000	1,000,000	Nevada	Philadelphia.	Ophir	62.500	625.000	on Comstock Lode, Nevada.	Moses A. Hoppock, 45 William.
Corrydonn	100,000	2,500,000	Gilpin co., Col.	46 Exchange Pl., N. Y.	Pacific	40.000	4.000.000	*	24 Pine, N. Y.
Continental	20,000	2,000,000	Gregory Dist. Col	115 Liberty, N. Y.			5,000.000	Alpine & Sierra cos	23 Nassau.
	200,000	1,000.000	Nevada. Gilpin co. Col. Gregory Dist. Col.	L. Bangs, 22 Pine, N. Y.	Peck			Ind Dist Cilmin on Col	E. R. Sawyer, 144 State, Boston. J. W. Stratton, 90 B'way, N. Y. F. K. McCully, 157 B'way, N. Y.
Dauphin & Colo.	200,000	1.000.000	Colorado,	John S. McMullin, 423 Walnut, Pa, T. Chalmers, Jr., 20 Ex. Pl., N. Y. J. M. Winchell, 72 Cedar, N. Y.	Perigo	30,000	3,000,000	Pine Mountain Dist. Nev	F. K. McCully, 157 B'way, N. Y.
Day & Bushnell	OUD OWN	10 000 000	Chaudiero Valley Canada F	I M Winchell 72 Codar N V	Pioneer & Inskin	00,000	0.000.000	Buena Vista Dist., Nevada.	15 Nassau, N. Y.
De Lery,	50,000	1.000.000	Gilpin & Clear Creek, Col	J. Wadsworth, 61 Cedar, N. Y.	Phila. & Color'de				
Devonshire				J. M. Winchen, 72 Cedar, N. Y. J. Wadsworth, 61 Cedar, N. Y. W. Stockbridge, 74 Fr'Klin, Bos'n, J. C. Harriott, 70 Wall, N. Y. F. McJimsey, 59 Wm., N. Y. I. P. Dacies SI John N. Y.	Phelps & Gilm're	200,000	1.000,000	Colorado	 W. Chark & Co., Plan. W. H. Steudevant, 25 Nassau. J. S. Lyon, 69 Wall, N. Y. R. H. Rickard, 19 Nassau. 69 B'way, N. Y. 102 South Third, Phila
Downieville	300,000	300,000	Colorado	J. C. Harriott, 70 Wall, N. Y.	Pleasant Valley.	125.000	1.250.000	Ill Can M Dist Col	R H Rickard 19 Nassan
Dorset	100.000	1.000.000	Gold Pirt Dist. Col	F. McJimsey, 59 Wm., N. Y.	Pontiac Prescott	100.000	1.000.000	Central Arizona	69 B'way, N. Y.
Eagle East Bannack	Level course		Bannack City, Montana		Quaker City			Ind't D't. G'd D't City, Col. Nevada Dist., Col. Pine Wood Dist., Nevada	103 South Third, Phila.
	500 000	 500 000 	I San A Diet Omilos of Anctin	208 S Fourth Phila	Quartz Hill	40.000	100.000	Nevada Dist., Col	J. A. Tyler, 29 Wall, N. Y.
Comming Mill S. M.				O. F. Griffin, San Francisco	Ranche C'k	10,200	1,200.000	Pine Wood Dist., Nevada	18 Broad, N.Y.
Enriquetta			Arizona Star D., Humboldt co, Nevada Dist., Col	New York.	Realito.	100.000	1.000.000	AmadorDist LandorCo No	Flijah Alliger 67 Wall N V
Esperanza		500,000	Navada Dist Cal	C W Pryant Boston	Reese River FF1	100.000	1,000,000	Alliador Dist., Landor Co., No	W. Stockbridge, 74 F'klin, Bos'n 67 Exchange PL, N. Y.
Etna	30,000	300.000	Central City Col	J. Weatherbee. Jr., 11 P. B'g. Bos.	Republic	15.000	1.500.000	Amador D., Lander co., Nev	67 Exchange PL. N. Y.
Excelsior Fairmount	20.000				Rocky Mountain	50.000	500.000	Grey & Empire Dists., Col	E. L. Bolles, 70 B'way, N. Y.
Famine Falls	100,000	1,000,000		D. L. Dodge, 80 B'way, N. Y.	Reciprocity	100.000	1.000,000	Canada East	B. B. Grant, Jr., 71 B'way, N. Y
Garrisons	100,000	5,000,000	Colorado	C. G. Mease, 29 William, N. Y.	Scorpion	100.000	1.000.000	sherbrooke Canada Kast	F Schumacker Cliff N V
Gem	25,000	1.200,000	Colorado	New York.	Silas Wright	60.000	600.000	Amador D., Lander co., Nev	18 Wall, N. Y.
Gilbort Divor		*******	Contracto,	C. F. Jackson, 18 Phe'x B'g, Bos'n	Cilinon Canto	144.000	500.000	(Humb't Starr. Pr. R. I	R S Miller 40 William N V
Gilpin .	*******			John P. Harker, 109 N. 64h, Phil, D. L. Dodge, 80 B'way, N. Y. C. G. Mease, 29 William, N. Y. H. K. Gates, 191 B'way, N. Y. New York, C. F. Jackson, 18 Phe'x B'g, Bos'n, C. W. Galloupe, 56 State, Boston, W. H. Adams, 19 Broad, N.Y. C. B. Cowling, 29 Kilby, Boston,	suver state	100.000	500,000	Humb't co., Nevada	 E. L. Bolles, 70 B'way, N. Y. B. B Grant, Jr., 71 B'way, N. Y. 617 Clay, San Francisco. F. Schumacker, Cliff, N. Y. 18 Wall, N. Y. ⁹ R. S. Miller, 49 William, N. Y. Emmet Blair, 243 B'way, N. Y. G. A. Lattrop, 4 Broad, N. Y.
Golconda	250.000	5,000.000	Sherbrooke, Canada E	W. H. Adams, 19 Broad, N.Y.	Silver Wave	300.000	3,000.000	Resee riv , Lander co., Nev	Emmet Blair, 243 B'way, N. Y.
tiona Ficht	*******		Contact Cites Colonado	D M Lookmood 119 Wall N V	Smith & P'rmlee	120,000	2,000.000	Gilpin Co. Col	G. A. Lathrop. 4 Broad, N. Y. A. F. Baum 48 Broad st., N. Y. 228 South Third, Phila. Consector N. Y.
Gold Rock	5,000	500,000	Calorado	R. M. Lockwood, 113 Wall, N. Y.	Snanish	100.000	3 000 000	La Plata, Churchill co., Nev	228 South Third, Phila.
Cold Monstair	00,000	B (IND OO)	Clear Creek Co. Colorado	W. T. Eustis, Boston, 25 Nassau, New York, E. Latham, 23 William, N. Y. J. Morse, Jr. 117 Riway, N. Y.	So. Clear C'k			Colorado	Canastota, N. Y.
Gold Min's of Col	50.000	5,000,000	Colorado	E. Latham. 23 William. N. Y.	starlight Ledge.	50,000	500,000	P'ville, El Dorado co	J. N. Powers, 22 Pine, N. Y. T. A. Mitchell, 70 B'way, N. Y 10 Pine, N. Y. New York
					Star of Color	200,000	2.000,000	Colorado	J. N. Powers, 22 Pine, N. Y.
Gunnel Central.					Standard	50,000	9 000 000	Gregory Dist. Col	10 Pine N V
Gunnel Gold					Sterling City	20,000	1 200 000	Colorado	New York.
Gregory	20,000	195 488	Colorado	J. Stanton, Jr., 25 Nassan, N. V.	Stewart.	100.000	500,000	Colorado	. C. Durham, 31 Exchange, Boston
Granada	60 000	600.000) Russel Dist., Col.	F. E. Bochson, 18 & 50 B way, N. I. Thos. Wildes, 17 William, N. Y. J. Stanton, Jr., 25 Nassau, N. Y. E. Kemeys, 70 Broadway, N. Y. F. E. Bolofson, N. P. Broadway, N. Y.	Suffoik				C. Durham, 31 Exchange, Boston Carlos Cobb. 22 William, N. Y.
Gunnel Gold					Southard				Wm. Wallace, 11 Doane, Boston C. E. Jackson, 15 Central, Boston
Halifax		*******		A. Case, 7 Phoenix B'l'g. Boston, Domas Barnes 21 Park Porr	Stafford	ton	1 000 000	Colorado	F J Wright S Wall N V
Harmony			El Dorado, Cal. G'Id Dirt Lode, Gilp. co., Col.	Demas Barnes, 21 Park Row.	Tascher	50,000	1.000,000	Black Hawk City Colorado	Wm F Parish 155 B'way N V
Her'it'ge Rauch	50,000	2 400 600	Cild Dirt Lode Giln co. Col	J. P. Davies St. John N. V.	Triunfo	00.000		San Antonio, L. Cal.	San Francisco.
Hope	150.000	SOO OF	Clear Creek co . Col.	J. O'Neill, 23 Wm, N. Y.	Union	240.000	12.000.000	San Antonio, L. Cal Colorado	. F. A. Potts, 110 B'way.
Humboldt	100.000	500.00	o Clear Creek co , Col Colorado	78 B'way.	United states	75,000	1.500.000	Colorado	J. P. Stevens, N. Y.
Idaho Gold	100,000		Montana	5 Fine, N. Y. W. F. Shirley, 137 B'way, N. Y.	University	050 000		Novada	31 Nassau, N. Y. J. B. William, 78 & 80 B'way.
Isaac's Harbor.	100.000	500,000) Isaac's Harbor, Nova Scotia.	W. F. Shirley, 137 B'way, N. Y.	Wanha Varia	200,000	6 000 000	Arizona	35 William N Y
			Colore to	14 EX. PL.	Waddingham	48.000	1.200.000	Alturas co., Idaho	35 William, N. Y. Jas. K. Selleck, 157 B'way, N. Y
Kansas Colorado	100.000	T 'GHUR' THU		 G. H. Wyman. 19 Phe'x B'lg, Bos. J. C. Harriott, 70 Wall, N. Y. F. Avery, 78 B'way, N. Y. H. Fales, 71 B'way, N. Y. 	Waverley				J. Leighton, 97 State, Boston 25 William, N. Y
PACES	300.000	200.00	o Colorado,	J. C. Harriott, 70 Wall, N. Y.	Windsor Gold M	10,000	100.000	Colorado	25 William, N. Y
Kin & Buell.									

LEAD.

COMPANY.	SHARES.	STOCK.	SITUATION OF	MINE.	SECRETARY & PLACE OF BUSINESS.	COMPANY.	SHARES.	STOCK.	SITUATION OF MINE.	SECRETARY & PLACE OF BUSINESS
menia					G. Furman, 77 Cedar, N. Y.	Mount Hope New Hampshire		200,000	Mt. Hope, Orange co. N. Y.	W. Williams, 24 Pine, N. Y. W. A. Farrar, 71 B'way, N. Y
ucks County					R. R. Sinclair, 53 Ex. Pl., N. Y. Alb. Case, 7 Phe'x B'l'g, Boston.	N. Y. & Boston.				S. M. Cockein, 22 William, N.
ute	110,000	550,000	Macomb T. St. Lav	v. co., N. Y.	Bev'l'y S. Merrill. 42 Cedar, N.Y.					24 Pine, N. Y.
ontinental					J. Sickles, 57 Ex. PL., N. Y.	Owens Lake				C. W. Bond, 78 Cedar, N. Y.
astport					R. Vose, 54 William, N. Y. Ogden Gaul, 25 Pine, N. Y.	Phœnix Placentia Bay		1.000.000	Newfoundland	G. W. Butler, 54 William, N. J. Simpling 29 Wall N. V.
					C. W. Bryant, Boston.	Ramsay		500,000	Township Ramsay, C. W	C. W. Bryant. Boston.
					65 Wall, N. Y.	Rochester				J. A. Ferguson, 8 Wall, N. Y.
ing's Hill	10,000	50,000			W. L. Haskin, 180 B'way, N. Y.	Rossie Rosa Clara				24 Pipe, N. Y. H. Lathrop, 25 Nassau, N. Y.
te Superior	200,000	1,000,000	1 Secs. 5 & 30 L.,	49 & ou R.,	C. L. Mather, N. Y.		100,000	1,000,000		H. B. Hawkins, 25 Nassau, N. I.
ancaster		250,000	Lancaster co., Pa.		J. R. Sibley, 35 Pine, N. Y.	St. Joseph		1.000,000		W. Williams, 6 Broad, N. Y.
acomb	110,000	550,000	Macomb T. St. Lav	r. co., N. Y.	C. E. Scofield, 42 Cedar, N. Y.	Shawangunk	100,000			E. P. Ackerman, 48 Pine, N. Y
aine		500,000	Eastport. Me		A. L. Butler, 54 William, N. Y.	Sussex			Sparta Town, Sus'x co., N. J. Orange co., N. Y	
ineral Point					H. W. Warren, 60 City Ex., B'stn. W. Williams, 42 Cedar, N. Y.	Warren			Warren, Gratton co., N. H.	J. S. Christie, 100 B'way, N T
						White Mountain.			New Hampshire	111 B'war, N. Y.

COMPANY.	SHARES.	STOCKS.	LOCATION OF PROPERTY.	SEC'Y AND PLACE OF BUSINESS.	COMPANY.	SHARES.	STOCKS.	LOCATION OF PROPERTY.	SEC'Y AND PLACE OF BUSINESS.
mazon	25,000	\$950 000	Novada	W. L. Louther, 134 So. 3d, Phil.	New York	1 500	1 500 000	Austin Novada	S. R. Hutchinson, 80 B'way, N.
Argentine	50.000	250,000	Argentine Dist Colorado	D. L. Demmon, 134 State, Boston	New York City.	50,000	5 000 000	Gold Can Dist. Lander Co. N.	10 Pine street New York.
Arizona				J. B. Randol, 25 Nassau, N. Y	New Y'k Dis'ct.			50 m I'm Austin, N. Y. Dis.	to a me on contract a securi
Astor		1 000,000	On Comstool: Lodo Nor	J. Chapman, 71 Broadway, N. Y.	NOW I. P. DIS.CO.	00,000	0.000,000	Novada	S. A. Hopkins, 71 Broadway, N
Atlantic & Pac.				J. N. Sewall, 8 Broad st., N. Y.	New Y'k & Nev.	10.000	1.000.000	Nevada	J. J. Osborn, 30 Pine street, N.
Big Smoky.			Sink'y Hill, Lander Co. Nev.		N. Y. & Owyhee	10,000	1 000 000	Owyhee Co. Idaho	6 Pine street New York
Black Eagle				O. D. Gardner, 40 Maiden lane.	N.Y. & Oro Fino	10.000	1 000 000	do	137 Broadway New York
Bullion		1 000 000	Bannock, Montano	55 Liberty street	N. Y. and Silver	10.000	\$10001000		tor monthly grow a second
Bush	50.000	500,000	Austin City, Nevada	176 Chambors st N V	Peak	20.000	2.000.000	Nye Coupty, Nevada	R. C. Root, 74 Broadway, N. Y.
ombination		50,000	Nevada	J. W. Stoute, Jr., 155 B'way, N.Y	N V & Santa Fe	20.000	240004000	Nevada	New York
		00,000	Cedar Hill Nevada	Now York	N V & Washop			Nevada	New York
olumbia	30.000	3.000.000	Anstin City Nevada	J. E. Smith, 10 Pine street, N. Y.	North Am M'a			Nevada	Philadelphia.
onn. & Nevada.	120.000	1.250.000	Averill, Churchill Co. Nev	49 Liberty street N V	Ocean Transit		1.500.000	Lower California, Mexico	24 Pine, N. Y.
ommonwealth.		2.000.000	Gold Hill, Nevada	78 B'way N V	Ophir			On Comstock Lode, Nev	
losmos	10.000	-,000,000	Owyhee Co, Idaho	137 Broadway N V	Pah Ranagat C'l.			Nevada	26 Pine, N. Y.
el Norte & S'br.			Lower California	New York	People's	100.000	500,000	Alpine & Sierra Counties	8 Pine street, New York.
Durango	5.000	500.000		W. R. Garrison, 73 W'm st., NY.	Phœnix	200.000	2,000,000		48 East 26th street, New York.
East Bannack	100.000	200.000	Bannock City Montano	J. Callender, 49 Ex. P., N. Y.	Picacho	50.000	2.000.000	Arizona	T. H. Perkins, New York.
mpire G. & S.			Bodie Bluff Mono	H. R. Gates, 191 Broad'y, N. Y.	Pine Mount'n	30,000	3.000.000	Pine Mount'n Dist. Nev	F. K. McCulley, 100 Bd2wy, N.
impire and Sil-				a. m. carees, to a broad y, cr. r.	Pioneer & Inskip			Buena Vista Dis., Austin. Nev	
ver State		2.000.000	Reese River Dist., Nevada.	57 B'way, New York	Prescott	50.000	2.500.000	Arizona	T. H. Perkins, New York.
Idorado				208 South Fourth street. Phila.	Presidential	125.000	2,500,000	Austin, Nevada	Wm. Lemmon, 17 Broad, N. Y.
Essex & Diadem.		2 500 000	Sierra dis Humboldt C Ney	A. R. Wetmore, 81 Vesey st, N.Y.	Republic	15 000	1.5 0.000	Amador, D Lander Co. Nev	67 Ex. Place, New York.
		21000,000	Nevada	Philadelphia	Revenue Exten.	50.000	500,000	Lander County, Nevada	W. L. Kite, 142 South 4th, Phila
lem	200.000	1.250.000		H. K. Gates, 191 B'way, N. Y.	Rosario & Carmu		1,480,000	Sinaloa, Mexico	San Francisco,
lobe		500 000	Austin Nevada	J. W. Brazier, 26 Pine, N. Y.	San Antonio	60.000	3 000 000	Arizona	C. Lamson, 21 Nassau st., N. Y
Good Hope		1 000 000	40 m S of Austin, Nevada	SO Broadway N V	Seminole	7 000	1.500.000	Uniony Humboldt Co., Nev.	L G. Wilkin, 119 B'way, N.Y.
		1.000.000	Montano.	New York	Silas Wright	60,000	600 000	Amador, D Lander Co. Nev	18 Wall street, New York.
ncas	300.000	300 000	Summit co Colorado	J. P. Whitney, 19 Lindall, Bost.	Silver Hill	40 000	1.000.000	Nevada	J. C. Hitchcock, 62 B'dway, N.
inickerb'r and	000,000	000,000		o. 1. Whitehey, 10 Landan, bost.	Silver Series	10.000	1.000.000	Lander Co., Nevada	W. B. Rogers, 117 B'way, N. Y
Nevada		2 000 000	Union Dis Nye Co Ney	H. R. Shotwell, 70 Cedar. N. Y.	South Boise, T.Co	200.000	2.000.000	Alturas Co., Idaho	A. M. Paimer, 19 Broad st., N.
ander Hill.	201000	-10001000	Nevada	74 R'way New York	Star Hill			Nevada	
incoln		1.000.000	Owyhee Co, Idaho	Sil Broadway N V	St'h CP Crk	20,000	- , ,	Colorado	Capastota, New York.
w'r California.	40.000	2.000.000	North Part of Lower Cal	55 William street N V	Stephenson	500.000	1.000.000	18 m E of Ft. Filmore	A. S. Kellogg, 22 Pine, New Yor
adison	30,000	3.000.000	Nevada	W. W. Perkins, 71 Bd'wy, N. Y.	Steptoe		2.000.000	Gold Can. Lander Co. Nev	10 Pine. New York.
		0,000,000	Nevada	Philadelphia	Sterling City		1.200.000		New York.
fanhattan			Nevada	57 B'way New York	Tarshish.	12.000	1.200.000	Torvabee Range, Un. D., Nev	H. S. M'Collum, 78 B'way, N. Y
lerchants		600.000	Alturus Co. Idaho	157 Broadway N V	Tempest		1.000.000		L. Bangs, 17 Nassau, N. Y.
letropolitan			Austin City, Nevada		Trumfo			San Antonio. Lo'wr Cal	
forning Star	5,000	5.000.000	Owyhee County. Idaho	137 Broadway, N Y	Toiyabee		5.000.000	Fine W'd, Mu'to Dis, Nev.	J. M. Brown, 157 B'wy, N. Y.
fount Vernon	500,000	5,000,000	Mount Verbon & Mammoth	and manage the st	Union & El D'o .	100.000	1,000,000	Mogul Silver Mp'tp	40 Park Row.
	,000	0,000,000	District, Nevada	New York	Upper Missouri.		100.000	Montana.	107 Broadway.
lount Vista	50.000	500.000		J. Chapman, 71 Bway, New York.	Vedder	21.000	2.100 060	Amador Dist., Nevada	L. G. Bingham, 80 B'way, N. Y
ational		1.500.000	Owyhee Co. Idaho	115 Broadway N V	Wamba Yuma.	600.000	6.000.000	Arizona	35 William street, New York.
vevada		300.000	Mountain Wells, D. Ch. co. Nev	323 Walnut street Phila	War Eagle	50,000	200,000	Owvhee Co., Idaho	G. M. Eldridge, 144 S. 4th, Phil
Vevada		1.200.000	Nevada.	E. L. Bolles. 74 B'way, N. Y.	Washington	22,500	2.250.000	Austin, Nevada	S. R. Hutchinson, 80 B'way, N.
New Y'k & Ione	20,000	2.000.000	Ione City, Nye Co., Nev	71 Broadway N V	White Mountain			New Hampshire	111 Broadway, New York.
		-,			- moundum				

COMPANY.	SHARES.	CAPITAL.	SITUATION OF PROPERTY	SEC'Y., AND PLACE OF BUSINESS.	COMPANY.	SHARES	CAPITAL.	SITUATION OF PROPERTY.	SEC'Y . AND PLACE OF BUSINESS.
Adventure,	20,000		Parts of Sections 35, 36, T. 51,		Lafayette,	20,000		Secs. 25, 30, 36, T, T. 51, N. R	P. C. Blancan, 35 Wall St., N. Y.
tna,	20,000		N Range 38 W, 1226 A in Secs. 6, 7, 18, T. 58, N	W. H. Smith, 51 Ex. Pl, N. Y. B. A. Hoopes, 324 Walnut St.,	Lyster,	200,000	\$400,000	43, and 44, W, Ontonagon, Township Nelson, Canada East	H. W. Nelson, 24 City Ex., B'st'n
It to a Dentity	00.000		R 28, W Keweenaw co. Mich.	Phil.	Lower California		2,000,000	N. part of Lower California,	55 William St., N. Y.
b'ny & Bost'n, nita,	20,000 20.000		Del Norte co. Californio	Fred. Beck, 43 City Ex., Boston. 8 Wall St., N. Y.	Madison, Merryweather,	20,000		Secs. 9, 19, T. 48, N. R. 4, W,	Fred. Beck, 43 City Ex., B'st'n, J. T. Waters, New York,
gomah,	20,000		Del Norte co., California, W % S, 30, T. 51, R. 37,	L. W. Clark, Boston.	Mandan,	20,000		680 A. Secs. 8, 17, 19, 30, T. 58	0. 1. Walles, New 1018.
llouez,	20.000		Town 57, R. 32, Sec. 31.	Horatio Bigelow Boston	JI GEOGRAD ;	40,000		N. R. 29, W., Keweenaw	
my gdl'yd'l.,	20,000		E12 Secs. 16, 21, T. 58, R. 30,	F. H. Womrath, 324 Walnut St.,				co., Min.,	B. A. Hoopes, 324 Walnut, Phil.
			NW ¹ ₄ Sec. 5, T. 57, R. 31, 160 Λ,	F. H. Womrath, 324 Walnut St., Philadelphia.	Manhattan,	20,000		W 2 Sec. 11, NW 4 Sec. 14, T. T. 58, N. R. 32, W, 360 A.	J. W. Davies, 21 Nassau St., N Y
rcadian,	20,000		NW1: Sec. 20, T 57, R 33		Mendotta,	100,000	500,000		M. Taylor, 30 Wall St., N. Y.
stor,	20,000		160 A, NW & Sec. 5, T. 57, R. 31	C. P. Dixon, 48 Pine St. N. Y. A. W. Boardman, 35 Court St.,	Mass. M. Co., Mesuard,	20,000 20,000		SW & Sec. 7, T. 50, N.R. 38, W. NE & Sec. 24, T. 55, R. 34,	L. Burr. 12 Phoenix B'gs, Boston
Atlas,	20,000		160 A, NE% of E% & NW% of NW%	Boston.	Melones & Stan., Minnesota,	20,000		Calaveras co., Sec. 15, T. 50, N. R. 39, W,	606 Mont St., San Francisco S. M. Pond, 12 Pine St., N. Y.
			Sec. 31, T. 57, R. 31, W ³ / ₂ Sec. 31, T. 51, N. of R. 37,	L. W. Clark, Boston.	Maryland,			Maryland,	Baltimore.
Aztec, Bay State,	20,000 20,000		W ½ Sec. 31, T. 51, N. of R. 37, SW ¼ Sec. 29, T. 58, R. 31,	L. W. Clark, Boston. L. W. Clark, Boston.	Merrimac,	20,000		Maryland, NW 14 Sec. 34, T. 51, R. 38, W. Ontonagon,	J. M. Mills, 284 Pearl St., N. Y.
Beaver,	20,000		NE1 Soc 20 T 58 D 21	A. W. Boardman. Boston.	National,	20,000		Sec. 16, T. 50, R. 39, W. 1.988 A.	J. M. Cooper, Pittsburgh.
bhemian,	20,000		E ¹ / ₂ Sec. 31, NW ¹ / ₄ Sec. 32, T.		Native,	20.000	100.000	Keweenaw Point, Michigan,	W. F. Hardy, 27 City Ex., B'st'n
loston,	20,000		51, K. 31, W.	R. H. Rickard, 21 Nassau St., N.Y. H. W. Warren, 60 City Ex., B'st'n.	Nashua, Nebraska,	50.000 20,000	100,000	320 A. N. Ontonagon, NEL: Sec. 12, T. 50, and other	S. W. J. Webb, 54 Wall St., N. Y
anada,	100.000		Brome co. Canada Fast	H P Mount 2 Hanover St V V	Acoraska,	20,000		lands,	
arp Lake, M.,	20,000		T. 51, N. R. 43, W. S½ of N½ of N. Sec. 14, and E¼ Sec.	the framework a finitover St., N. 1.	Nequakett,	20.000		Sec. 26, T. 51, R. 43.	G. S. Frost, Detroit.
			of N. Sec. 14, and E14 Sec.		New York,	20,000		240 A. SE14 Sec. 10, E12 NE12	H. W. Nelson, 24 City Ex., B'st'n
annala M	00 000		23, and NE ¹ / ₄ Sec. 23, 440 A,	W. H. Abel, 70 Wall St., N. Y.				Sec. 15.	R. Robarts, 19 Nassau St., N. Y.
ascade, M.	20,000		SW14 Sec. 9, T. 49, N. R. 39,	O D Dil- of W.U.C. N.W.	New Burra,	100.000	1 000 000	Baltimore, New Jersey,	W. Bowes, 68 Wall St., N. Y.
opper Creek,	1.000	\$100.000	Missouri,	G. F. Riley, 35 Wall St., N. Y. H. M. Thompson, Missouri, Mo.	New Jersey Con. N. Y. & Passaic.	100.000	1,000,000	Harrison Bargon o	T H Belt Jr 23 William St N V
Copper Falls,	20,000	*****	Sec. 14, T. 58, N. R. 31, W.	a. M. Hompson, Missouri, Mo.	New Devou,	100,000		in the second se	T. H. Belt, Jo, do. do.
			Keewenah Point,	97 State, Boston.	North Western,	20,000		W12 Sees. 24. 25. 26, E12 Sees.	17 William St., N. Y.
Copper Harbor,	20,000		S12 Sec. 10, T. 58, R. 28, 320					36 35 T 58 N R 31	J. M. Cooper, Boston and Detroit
Copper Creek,	20.000	500.000	A, Keewenah co.,	Fred. Beck. 43 City Ex., Boston.	Norwich,	20,000	500,000	Secs. 11, 12, T. 40, N.R. 39, W. and other lands, 1,300 A.	P. C. Blancan, 35 Wall St., N. Y
Central,	20,000	500,000	Douglas co., Wisconsin,	T. B. Lawson, 71 Broadway, N. Y. J. Stanton, Jr., 25 Nassau, N. Y.	Ogema.	20,000	500,000	NW1 See 6 T 50 N R 33 W	G. E. Leffingwell, 7 Pine, N. Y.
ornwall,	20,000	000.000	Strafford, Orange co., Vt.,	D. H. Whitney, 17 State St., B'n.	Ontonagon,	20,000	300,000	631 A. Secs. 20, 21, 28, T. 50.	
Continental,	200,000	500,000	Martinsburg, New York,	J. Sickles, 50 Ex. PL, N. Y.	oncoungon,	a0,000		N R. 39, W. Rockland,	G. Hart, 11 Pine Street, N. Y.
brinth,	20,000	500,000	Corinth, Orange co., Vermont.	W. A. Cleveland, 191 B'way, N.Y.	Ont'n'g'n, Mass.	20,000		Ontonagon.	William D. Williams. Michigan.
Copper Hill, Dacotah,	00.000		Wisconsin,	Boston.	Otisville,	100,000	500,000	Otisville, Orange co., N. Y.,	C. Windsor, 69 Wall St., N. Y.
Alcotali,	20,000		Sec. 35, T. 55, R. 34, Portage Lake,	J. M. Cooper, Milk St., Boston.	Penn. Manuf'g.,	20,000	1,000,000	(4.320 A. Secs. 13, 14, 15, 24, ¹ , Secs. 10, 11, 12, 23, 25, T.	
Delaware,	20,000	500.000	Luno,	S. M. May. 326 Walnut St., Boston.				58. N. R. 30, W.	S. M. Day, 326 Walnut St., Phil
Derby,			Ontonagon co., Mich.,	P. C. Blancan, 35 Wall St., N. Y.	Pewabic,	20,000		W 14 Sec. 25, T. 55, N.R. 34, W.	C. Emery, 39 State, Boston.
Dorchester,	20,000		800 A.,	31 and 32 City Ex., Boston.	Pitts. & Boston,	20,000		Ts. 58, 57, N. R. 31, 32, W.	The set of the set of the set
Douglas, Dudley,	20,000		E ₄ Sec. 30, T. 55, R. 3,	S. J. Edwards, William St., N. Y.				12.495 A. SEM Sec. 13, T. 55, N. S. 31, W.	H. A. Johnston, Pittsburgh.
Eagle River,	20,000		T 58 R 21 Same 98 90 92 94	H. Bigelow 43, City Ex., Boston, A. Lamson, 70 State St., Boston,	Pontiac,	20.000		Houghton co, Michigan,	22 William St., N. Y.
Ely,	100.000	500.000	325 A., Richmond, Canada Fast	Ernest Sacchi, 82 B'way, N. Y.	Portage Lake, Prescott,	100.000	1.000.000	Central Arizona.	69 Broadway, N. Y.
Empire,	20,000		1798 A., Secs. 1, 2, 11, 12, T. 58.		Providence,	20,000	500,000	240 A. in Keweenah co., NW 5	
	00.000		N. K. 28, W. K'w'n co., Min.,	J. S. McMullin, 423 Walnut, Phil.				Sec. 10, W 1/2 NW 1/4 Sec. 10,	J. W. Davis, 21 Nassau St., N. Y
Eureka,	29,000		W12 Sec. 2, T. 49, N. R. 41,	T (1) -1. 105 D1				T. 57, R. 32, W. 640 A. Sec. 14, T. 58, N. R.	
Evergreen Bluff,	20,000		W. Ontonagon co., NE¼ Sec. 6, T. 50, R. 38,	H. Shirley, 137 B'way, N. Y. F. W. Capen, 44 Ex. Pl., N. Y.	Phila. & Boston,	20,000		28.W. Keweenaw co., Mich.	Boston
Flint Steel R.,	20,000		Sec. 11, 12, T. 50, N. R. 39, W	F K McCully 157 R'way N V	Quiney.	20,000		Sec. 26, T. 54, N. R. 34, W,	W. H. Smith, 51 Ex. PL, N. Y.
Forest City,	20,000		320 A. NE14 Sec. 36, and SE14	J. F. Paul, 19 Phoenix Building.	Republic,	8,000			H. Baldwin, 70 Wall St., N. Y.
			Sec. 25, T. 51, R. 43,	J. F. Paul, 19 Phœnix Building. Boston.	Reliance,	20,000		Secs. 21. 22. 27, T. 53, N. R.	11 17 mb
Franklin,	20,000		34 Sec. 24, T. 55, N. R.				F00.000	28, W, 10,785 A.	H. K. Thomas, 11 Wall St., N. Y J. A. Ferguson, 8 Wall St., N. Y
Tranconia,	60.000	300 000		C. Emery. 26 Kilby St., Boston.	Rochester,	200,000	500,000	Sec. 35, T. 51, R. 38, W,	51 Exchange Place, N. Y.
French Creek.	100,000			J. Hanna, 162 Fulton St., N. Y. R. Roberts, 19 Nassau St., N. Y.	Ridge, Rockland,	10.000 20.000		Sec. 11, T. 50, R. 39,	S. J. W. Barry, 71 B'way, N.Y.
Garden City,	20,000		SW14 Sec. 60, N. W. Sec. 59,		Resolute,	20,000		1.120 A. Secs. 7, 18, 19, T.	
Ninond			T. 58, N. R. 31 W.	R H Howe Chicago				58. N. R. 29, W. Keweenaw	
Girard,	20,000		600 A. Sec. 15, T. 58, N. R. 28,	D A Hannes COA Waland Party	G1 15-11-	00.000		co., Mieh.,	F. Beck, 45 City Ex., Boston.
Gr'd Portage,	20.000	4	W. Keweenaw co., Mich., SW14 Sec. 36, R. 34, W,	B. A. Hoopes, 324 Walnut, Phil. A. S. Kellogg, 22 Pine St., N. Y.	St. Mary, St. Margaret,	20,000	1,000,000	Canada.	E. B. Sutton, 43 Pine, N.Y.
Great Western,	20,000		SE14 Sec. 30. & SW14 Sec. 29.		Sharon,	200,000	* 1.000,000	Ontonagon co., Mich.,	P. C. Blancan, 35 Wall St., N. Y.
		(T. 21, K. 320 A., Ontonagor.	J. M. Cooper, 24 Citty Ex., B'st'n.	Sheldon & Col.,	20,000		SE1, Sec. 36, T. 55, R. 34, W.	S. J. Edwards, 22 W'm. St., N. Y
Hamilton,	20,000		SE14 Sec. 35, S12 Sec. 36, T.		south Side,				H. W. Nelson, Boston. Copper Harbor.
		1	50, R. 41, SW 5 Sec. 21, R.	J. B. Townsend 44 Exchange	Societe Fran'se, Suffolk.	10,000		T. 58, 59, N. R. 28, 50 W,	Carlos Cobb. 22 William St., N.Y
Hancock,	20,000		20, 14 4 A., SW 4 Sec. 26, Tract of Sec. 25,	N. I.	Superior,	20.000		W14 Sec. 14, T. 50, N.R. 39,W.	S. J. W. Barry, 12 Pine St., N. Y
			T. 5, R. 34, W.,	Fred. Beck, 43 City Ex., Boston.	Toltec Consol.,	20,000		Secs. 25, 26, R. 50, R. 36,	H. W. Nelson, Boston.
Hanover,	20,000			do. do. do. do.	Union,	20,000	500,000		A. S. Kellogg, 22 Pine St., N. Y
Hartford,	20,000	500,000	320 A. Eld & SE14 Sec. 32,		Ural,			Wisconsin.	17 William St., N. Y.
			SW14 & W & Sec. 33, T. 50, R. 40, W,	T M Tung 61 Coden 24 D	Vulcan,	20,000		1.120 A. Secs. 7. 17. 18. T. 58. N.R. 27. W. Keweenaw.co.	F. K. Womrath 324 Walnut, Phu
Henwood,			Michigan,	57 Broadway N V	Victoria,	20.000		Secs. 20, 29, 30, 34, 34, T. 50.	
Hope,	20,000	50,000	240 acres in T 57, R 32 Kw co.	19 Nassau St., New York.	a second for a	20,000		R. 39, and other lands,	L. W. Clarke, Boston.
Humboldt,	20,000		Seo, 21, T. 58, R. 31, W	Hor. Bigelow, 43 City Ex., B'st'n.	W. Minnesota,	20.000		Secs. 17, 18, 19, T. 50, N. R.	C. B. Hannah Darten
Hudson,	20,000 20,000		Ontonagon co., Sec. 2, T. 54, R. 34, W,	P. C. Blancan, 35 Wall St. N. Y	11			39. W,	C. T. Howard, Boston. G. A. Sneden, 12 PineSt., N. Y
Huron, Isle Royale,	20,000		NW1/ Sec. 1 T 54 D 24 W	Hor. Bigelow, 43 City Ex., B'st'a.	Wickopee,	100.000	500,000	Massachusetts, W. Fairlee, Orange co., Vt.	G. A. Sneden, 12 PineSt., N. 1 191 B'way, N. Y.
Keweenaw,	20,000	500.000	NW ¼ Sec. 1, T. 54, R. 34, W, Michigan.	F. W. Chapen, 33 Ex. Pl., Boston, F. W. Chapen, 44 Ex. Pl., Boston.	Vermont, Waula Yuma,	100,000	500,000 6.000,000	W. Fairlee, Orange co., Vt., Arizona,	35 William St., N. Y.
Knowlton,	20,000		SE% Sec. 1, W% of SW% Sec.	44 Ex. Pl., N. Y.	wauta Tuma,	000,000	0,000,000	1	
	1		1, and other lands,						

AMERICAN Journal of Mining. TILLUSTRATED.

> GEORGE FRANCIS DAWSON. EDITOR

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NEW YORK, SATURDAY, JUNE 23.

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LAND. LONDON METAL MARKET. CHEMICALS USED IN THE VOLU-METRIC ASSAY-Prices, etc. ASSAVING IMPLEMENTS.-Prices, oto

VETO OF A MINING AND MANUFACTURING BILL.

The President's veto of the New York and Montana Iron Mining and Manufacturing Co.'s Bill, has given rise to much comment, generally approbative. Certainly, while there is much to be said in favor of doing all that in reason can be done toward the development of our country's mineral resources, and especially of the useful minerals in the Far West. yet it is considered by the Chief Executive and his supporters, as impolitic and unwise to approve a bill that would give to a company such extraordinary privileges as does this. It is said that there is some probability of the bill being passed over the President's veto; but we doubt the report. Its provisions authorize the company to pre-empt and take possession of twenty sections of land-three containing iron ore and coal, and the balance timber land near by-conditional on the survey of such land, the construction of iron works capable of manufacturing fifteen hundred tons of iron per an-

years from the time the bill goes into effect. The President says that private citizens should have as favorable terms as corporate companies; that private citizens cannot pre-empt beyond one hundred and sixty acres ; and where the settlement is upon unoffered territory, the time for payment is limited to the day of public offering. Hitherto, except in the case of coal lands, which have been sold at a minimum of twenty dollars per acre, mineral lands have been carefully reserved from pre-emption and sale. By this bill, the company is to receive a grant, at \$1.25 per acre, that even an individual who has fought for the Union cannot get for less than twenty dollars. In short, the President sums up his objections thus :

his objections thus : First. That it gives to the New York and Montana Iron-mining and Manufacturing Company pre-emption privileges in iron and coal lands on a large scale, and at the odinary minimum—a privi-lege denied to ordinary pre-emptors. It bestows upon the com-pany large tracts of coal lands at on-existeenth of the minimum price required from ordinary pre-emptors. It also relieves the company from restrictions imposed upon ordinary pre-emptors in respect to timber lands, allows double the time for pyment granted to pre-emptors on offered lands, and these privileges are to purpose and heretofore authorized by the pre-emption laws, but for trade and manufacturing. *Second.* Pre-emption rights on such a scale to promote corpo-rations are unequal, and hostile to the policy and principles which sanction pre-emption laws. *Third.* The bill allows this company to take possession of land, use it, and acquire a patent thereto before the Indian title is ex-tinguished, and thus violates the good faith of the government towards the aborginal tribes.

ARRIVAL OF SKILLED LABOR, AND HOW TO IN-CREASE SUCH IMMIGRATION.

The immigration from Europe to this country appears to be causing considerable disquiet to the employers of labor on the other side of the Atlantic. Until within a short time the class of immigrants had consisted chiefly of unskilled laborersmen skilled in using their muscles rather than their brains. But now our coal mines invite over the South Wales colliers; our copper, silver and gold mines the Cornish men ; our iron and steel works the men of Sheffield, and our engine works the men of Lancashire. There is room for as many skilled laborers as are likely to come. The wages here are higher in proportion than in Europe, and such an immigration will conduce to the general advantage of all concerned. The experience of the English, the skill of the French, and the quiet perseverance of the German are desirable elements to mix with the restless energy of our own mining countrymen. But this immigration seems to have commenced, and is now going on in spite of grave hindrances. We want such men to come to this country. Then why do we not incite them to come? Newspaper articles may do something-but not much. Neither these nor immigration hand-bills, but letters from residents here to their friends abroad, are the best immigration agents to employ ; yet upon every one of these we lay a tax of 24 cents. Great Britain to her colonies is somewhat wiser, and taxes them only half that amount. Why should a letter cost more to Liverpool, Paris or Hamburg, than to San Francisco? Yet in one case the charge is 3 cents, in the other 24. Let it be read, in constantly arriving letters, in European cottages, that a skilled laborer is sure of high wages and constant work. and his own natural discontent of the present, and hope for advancement, joined to the natural persuasion of those who wish to have their old friends with them again, will do more than all the immigration agents that can be employed.

SUTRO'S MAMMOTH TUNNEL

We uncerstand that Mr. A. Sutro has gone to Europe to seek from the capitalists of London, the \$3,000,000 needed for the completion of the great adit known as the Sutro Tunnel-which is to run from near Dayton to the Comstock lode, in the State of Nevada, draining the mines at a depth of one thousand feet lower than the lowest point any of them have yet reached. We should have been better pleased to hear that the prosperous sil-

from Cedar Hill to beyond Crown Point, had clubbed together and subscribed the requisite amount. There must be from thirty to forty of them ; and supposing there are but thirty, it would amount to only \$100,000 each, while each would derive a benefit far exceeding that amount. There is no question but that the Comstock is a true lode-all the scientists are agreed on this point-and that it will not diminish in richness as the workings descend, is generally believed. Why, then, there should have been any hesitancy on the part of these companies to take hold of the Sutro project themselves, is very surprising. Perhaps they differed as to the proportion that each should pay-as some of the Comstock mines (in Gold Hill) extend only ten or fifteen feet on the lode, while others (as in Virginia) extend as many hundreds. But whatever the cause, we may be very sure that British capital will jump at such a chance, and that when the great adit is completed-if geologists are not entirely at fault-there will be gathered a harvest of silver, in contrast with which the \$30,000,000 or \$40,000,000 heretofore realized may be counted only as first fruits.

A RUSH OF RAILROAD BILLS.

It would seem as if the railroad people are having a grand jubilee. Their bills are running through Congress at railroad speed, and so long as they do not ask too much, we feel a sort of sympathetic jolity in the reflection that nearly every scheme comprises a railroad that will open up to development the mineral regions of our advancing country. On the 19th inst. the " Pacific Railroad bill " passed the Senate; also "a bill to grant lands in aid of the construction of a railroad from Salt Lake City to the Columbia River. On the 20th, the bill " to grant land in aid of the Kansas and Neosho Valley Railroad was taken up and discussed ; while in the House, the same day, the bill granting to the State of Iowa alternate sections of land to aid in constructing the Iowa Central Railroad was reported back by the Committee ; the California and Oregon Railroad Senate bill came up; a substitute for the Senate bill for a grant of lands to the State of Kansas to aid the Northern Kansas Railroad was reported back; the Columbia River and Salt Lake Railroad Bill, and a bill " to amend the Act of July 22d, 1864, to aid in the construction of a railroad and telegraph line from the Missouri River to the Pacific Ocean," were referred.

A Fine Cabinet

Usually the arrivals from the great mining regions of the Pacific consist either of gold and silver, or of prospectors seeking Eastern capital to develope their mines. But we now are on the qui vive for the arrival of a museum of scientific curiosities, consisting of 15,000 or 20,000 specimens of ores, petrifactions and native productions, from most of the Western Pacific States, as well as from Mexico, New Granada, Australia, and the islands of the Pacific ; also a model of a quartz mill, with stamps, pans, &c., worked by a miniature steam engine, all the woodwork being made from the various indigenous woods of the Pacific coast. The collection has been made by a Mr. M. J. Henley, of Dayton, and is the fruit of his con amore study for years past. The specimens are so arranged as to exhibit all needful information respecting the ores.

Good News for Coloradians.

We have good authority for stating that Mr. Herman, representative of the great copper-smelting firm of Vivian & Sons--who have no less than two hundred and fifty furnaces at Swansea, South Wales, hard at work all the time-recently arrived in this city t make personal inspection of some of our American copper ores. Having seen some of the ores from num, and the payment of \$1.25 per acre within two ver companies mining the Constock all the way Colorado and tested the same, he pronounced the

TERMS:

results *fabulous*, and on the 14th inst. he left Atchison, Kansas, on his way to that land of buried riches. It seems that he is of the same opinion with Mr. Lyon, and others, that the only true way of reaching the precious contents (of Colorado lodes is by smelting.

Sad Loss.

The death of Henry Darwin Rogers, Regius Professor of Geology and Natural History in the University of Glasgow, is severely felt in scientific circles of America. The deceased was a native of Philadelphia, and at various periods filled chairs in American colleges. His official report on the geology of New Jersey, and his geological survey of Pennsylvania, besides his many contributions to leading scientific journals here and in England, will be remembered with pleasure by many of our readers.

"Fair Play is a Jewel."

The New York City Council has concurred with the Board of Aldermen, in directing a contract to be made for lighting the city lamps with coal gas at the present high rates for twenty years. As gas can be made from petroleum at 50 per cent. less cost than from coal, and as petroleum gas burns with a far more brilliant flame, the passage of such an ordinance is manifestly an outrage on the people of this city—and one which we cannot believe Mayor Hoffman will concur in.

Scientific Meetings.

SOCIETY FOR THE ADVANCEMENT OF SCIENCE AND THE ARTS.

Monday evening's paper was on cholera, by Doc tor Giscom. Cholera, said he, is like the shears of -one blade by itself is comparatively harmless. the two blades together easily sever the threads of human life. The one blade is the choleraic atmosphere - the other blade is filth. On board of vessels, how narrow is the line which separates death from life He goes down the hatchways, but avoids the cabin stairs. On the one side of a partition is cleanliness, fresh air ; and on the other filth, want of ventilation and death. Inquiry has been made as to the character of the immigrants who came over in the cholera ships; the answer was, they were the filthiest that were ever passed by the health officer. And where has Cholera first shown himself in our own city? Not among that travelling part of the community with whom we might expect he would be first introduced, but among persons who seldom stir away from their own squalid homes ; not near the wharves, but in the middle of the city, where low-lying, damp, filtby, or over-crowded dwellings invited him. Another curious circumstance of his approach, was the timein the night. Almost all the cases occurred after sundown; not in the middle of the day. The men who were engaged in removing nuisances were warned of this; those who worked during the day only escaped ; those who ventured upon this work after night were frequently attacked. The mortality in this city was in 1849, one in every hundred of the inhabitants. In Philadelphia, on the contrary, where the inhabitants were better prepared, it was only one in four hundred and fifty.

But, you may ask, how is cholera to be kept at a distance? I answer, chiefly with fresh air. The human lungs require a certain number of cubic feet of fresh air per minute; of this only one-fifth is oxygen, which changes the food into blood and keeps up the vital heat of the body; the remaining four-fifths is nitrogen, a neutral gas so far as is known. When the lungs have made use of this small modicum of oxygen, it is returned to the air a poison—carbonic acid Here it gets rid of its poisonous nature, and becomes ready again to enter the body. We breathe, in fact, the same oxygen which Adam and Eve, and all who have succeeded them, have breathed; and it is this same oxygen gas which maintains light in a candle. Look

at these candles (putting two under a glass vessel); this vessel represents the hold of a ship; this hole at the top, the hatchway; these candles, human beings; see how dimly they begin to burn; now one is extinguished.—dead; it has exhausted its oxygen, and the carbonic acid gas cannot escape through the hatchway; just so with immigrants.

It used to be the practice of the British Government to pay ship owners for taking convicts to Botany Bay, according to the number shipped ; the consequence was, fifty per cent. died on the voyage. The government changed the plan, and paid for each immigrant landed ; the same number was shipped, but the mortality was only one and a half per cent., or less than the mortality among a similar class on shore, and this effect was produced by introducing ventilation and cleanliness. Next to this is the removal of nuisances, and good drainage ; and then, if the infectious matter has been allowed to be formed, the use of disinfectants. Of these, one of the most powerful is chlorine gas, which, when brought directly in contact with the vitiated atmosphere, combines with it, and thus neutralizes it; but it is irritating to the organs of the mouth and nostrils, and therefore not fitted for use among living beings. Chloride of lime and lumps of lime left in a room until they crumble to powder are also excellent, and still better are some preparations recently introduced.

The Doctor then exhibited a round tin apparatus with openings at the bottom, closed at will, like the register of a stove, for applying powders, which he hoped would come into general use. He also exhibited the Archimedean Screw Ventilator, an exceedingly simple and ingenious means for causing a circulation of the air.

Original Papers.

FREPARED FOR THE JOURNAL OF MINING.

GEOLOGICAL SCALE

Rocks.	Geological Age.	Localities.
		River Sands of California, Oregon, Washington, Brit- ish Poesessions, Idaho, Montana, Colorada, Ari- zona, New Mexico, Mexi- co, Nebraska, Minnesota, Atlantic States, Vermont, Canada East, Nova Scotia.
	Past Pliocene	Ohio, Vermont, Canada East, Nova Scotia.
Placer	(Lacustrine)	California, Valleys of Sacra- mento and San Joaquim.
Tertiary	Cainozoic	Coast Range Mountains.
		Coast Range of Mts on the east slope, Foot Hills of Sierra Nevada.
lurassic	Mesozoic	Sierra Nevada, west slope, Rocky Mts.? Reese River Mts.? Humboldt Mts. and others in Nevada.?
Triassic	Mesozoic	Sierra Nevada, east slope. Humboldt Mts., Reese River Mts., other ranges of the Basin.
Nuubus)	pper Palacozoic	Sierra Nevada Mts., west slope Ricky Mts. ?
D vonian	Palaeozoic	Nova Scotia.?
Siluviau	Palaeozoic	va Scotia.
Quebec Gr'p) An	pic Palaeozoic	. Canada E., Maine, N. Hamp.
Taconic Gr'p∫in j	part.	Vermont, Maryland, Virgin- ia, North Carolina, South Carolina, Georgia, Al'b'ma
Talcose State Gro	up Azoic	Atlantic States. Arkansas. Missouri, Minnesota.
Mica State Group		Canada E. & W., Wisconsin Michigan, Verm't., Maine New Hamp., Nova Scotia
Granite and Quei	bioa	
Group		Colorado. New Mexico, Ari- zona, Missouri, Wisconsin Min'ta, Mich.S'th'n Atlan tic States, Nova Scotia.?

LEAD FIELDS OF THE UPPER MISSIS-SIPPI-No. Two.

THE DUBUQUE MINES.

By J. VANCLEVE PHILLIPS.

These noted lead mines are a system of parailel east and west gash veins, and occur in the upper galena limestone. The lead measures along the river at this point, rise up in nearly vertical walls, three humired feet high—the egress from the lower part of the city, and the bottom along the river being through denuded valleys that run west and divide the lead measures in

a series of ridges. These are covered with deep clay. and have numerous small ravines terminating along their sides. The country is prairie, with occasional groves of timber. The creeks that come in from the west follow vallies, cut down nearly to the level of the Mississippi. By this arrangement the lead measures are drained two hundred feet deep along the bluffs, and about one hundred feet back-from one to two miles-where the veins have been united. There have been about seventy-five of these east and west fissures, discovered in a distance of five miles up and down the river. Some of these crevices have been worked one and a-half miles in length, in this distance crossing three or four ridges, and making three or four lodes, or large gash veins-the largest ore being found in the centre of the ridges. Some of these crevices have been worked only at one point ; others, again, at two points, one mile apart. The ridges have a similar structure-the upper galena limestone cap rock, and blue shale being above the level of the deep valleys. In sinking on the high grounds back of the city, the successsion of strata is as follows : Twenty feet of surface clay, a clean spading alluvial clay, with occasional horizontal layers of water-worn pebbles of yellow and white flint, twenty feet of yellow pipe clay impervious to water, ten feet of blue shale, twenty feet of yellow fine-grained magnesian limestone, known as the cap rock. If the shaft is following a fissure or crevice below the cap. this expands to a width of five, ten, or twenty feet, the space being filled with clay, ocher, sand and tumbling rock, which forms the matrix of the lead vein. These expansions of the crevice are called "openings" by the lead miner. The crevice through the cap rock is tight, with occasional round chimneys, out up through to the clay above, and thus forming sinks in the clay. Where these were found in an east and west range, they were selected by the miner for points to sink prospect shafts, and frequently led to veins in the openings. These openings are from fifty to seventy-five feet deep, and grow narrower towards the bottom. It appears that at one era, these lead measures were fissured vertically, and that the walls of these fissures were then eroded in the upper galena limestone, under the cap rock-the material being partly removed by the action of water, and the space filled with surface clay, and water with pebbles of flint, and afterwards the lead vein filled in this clay and sand which formed the matrix of the ore. Where the material filling these openings has sunk away from the cap, a cave is formed. These caves are sometimes one thousand feet in length, twenty feet wide, and ten feet high, the clay in the bottom being fifty feet or upwards deep. The lead ore is filled in the form of a gash vein through the central part of the clay in the opening, and in places is attached to the roof rock of the cave. In one of these caves, opened in 1852-at which time the examination was made-in the seam in the cap rock was suspended a vein of ore that hung downwards in the cave four feet, and was fifty feet long, one foot thick, cubic formed, and weighed one bundred tons. Along the sides of the roof also, were seen numerous cubic masses of ore weighing tons, among these : stalactites, and masses of pipe-formed satin spar. The ore hung round the roof of this chamber, or cave, which was eight hundred feet in length, like strings of ivy seen climbing the walls of some deserted mansion. The great mass of the vein was in the clay, going down seventy-five feet below the cave, and to nearly the bottom of the upper galena limestone. At one point along the Mississippi, the lead veins follow these openings out to the face of the bluffs, the ores being first found in the debris at the bottom of vertical fissures seen in the limestones, and were followed in the ridges by drifts. At other points the fissures or openings near the bluffs are barren of ores; some ridges are also more productive in ores than others. In the central part of the ridges, these east and west openings and caves, which are from one to three hundred feet apart, connect by small north and south caves or openings. These are generally about large enough for a miner to crawl through, and sometimes carry small strings of ore in sheet form, in the clay in the bottom, say one-eighth of an inch thick, that lead from one of the large east and west veins to another. A large amount of exploring for these caves low along under the cap, hoping to reach what is called " open ground," that is, where the clay had settled away sufficient for passing. Some years ago, an

old lead miner, who had been very successful making

discoveries in this manner-having fought the " tiger"

until the proceeds of his last mine had become nearly

exhausted-concluded to take a long siege of exploring under the cap rock, and discover another lode.

Taking some provisions, a pick, spade and candles, he

went down a shaft ninety feet deep, and passing west two hundred feet, he found the ore had been worked. A small cave was going north. This was just sufficient-

ly large to admit of crawling through, and was fol-

lowed three hundred feet. Another east and west eave

was here found, but no ore in sight. Following this

west some five hundred feet, another small cave went

north. After working in this for one day, levelling

the little hills of clay and cutting out some loose rock

along the sides, it was enlarged sufficiently to pass

three hundred feet, and another east and west cave in-

tersected. Here were found vast piles of lead ore. The cave was about one thousand feet in length. Our fortunate miner explored and examined the piles of

wealth. and when he thought of returning his last candle was nearly burned out. To get in through

these small caves had been a work of no ordinary la-

bor. in many places they narrow down to a pipe one

foot in diameter, and to return was no less so. The

first north and south was passed, and the east and west

came the struggle to find the next small north and

south that led to the crevice that had been worked.

The reader must realize that, shut up in these caves in

utter darkness, the points of the compass are at once lost; the miner is unable to tell whether he is going

east, west, north or south. Two days and two nights

was spent hunting for this small cave that led out to

the shaft. The man at last, by piling rocks, and in

this way making landmarks, succeeded in finding his

way out, and, nearly dead from exposure and hunger.

climbed up the ladder of the shaft by which he de-

seended, after a lapse of three days. What must have

been the thoughts of this miner, shut up in this cham-

ber, ninety feet below the surface-his newly discov-ered wealth on one side, and hunting for daylight on

the other-is left for the reader to imagine. When a discovery of this kind is made, the ground is surveyed.

This is done by taking a compass and chain down be-

low, and by candles, taking the angles of the crevices. The survey is then duplicated on the surface. When the

cost of sinking a shaft is going to be over one thousand

dollars, surveys are generally made by separate parties, and by this caution mistakes are avoided.

shaft to this cave passed through strata as follows

Twenty feet of surface clay, twenty feet of pipe clay,

ten feet of blue shale, and twenty-five feet of cap

rock. The first eight hours' boisting, one hundred ton

of ore was raised. The cave yielded several millions

pounds of ore. The discoverer was T. Leveans, Esq.

one of the oldest and most successful lead miners of

Dubuque. In going west, these gash veins are over-

laid by pipe clay, shale and cap rock, which forma tions hold surface water, and the ground will require to be developed by mining companies. The veins increase in richness in this direction, and evidently cross

MINING COMPANY STATEMENTS.

AIRING COMPANY OLALEMENTS. FAIRMOUNT GOLD AND SILVER MINING COMPANY.—CAPTAL, §200,000; 20,000 SHARES. PAR VALUE, \$10; FTL, PAD. This company state in their prespectus that they have the re-fusal of the General Morehead lobe. 1400 feet in Clear Treek County, Colorado Territory, represented to be very rich in gold and silver; which, if assortained to be true by our committee, who will make a personal inspection, will be purchased at the towest price, for which the owners will sell, viz: \$40,000. The total sum collected over purchase price, to be working capital.

DIVIDENDS. THE DALZELL CHERRY RUN, and PITTSBURGH AND CHER-Y RUN" PETROLEUM COMPANIES have declared dividends 1, 1, and 2 per cent, respectively.

MEETINGS. THE RIVER-IDE PETROLEUM COMPANY will meet on the 25th instant, at 78 and 80 Broadway, to arrange for borrowing money on bond and mortgage.

a large undeveloped lead field.

RY

Now

The

cave reached, and the last candle burned out.

AMERICAN JOURNAL OF MINING. through these north and south crossings. It is custo-MARKET REVIEW. mary for a miner to have a small snade and nick, and when the openings, either north and south, or east and The excitement in the gold market during the past week has west, are filled up to the cap rock. to spade out a narrow channel sufficient to admit the body, and so fol-

The excitement in the gold market during the past week has been remarkable. It culminated on Saturday at 169. After Sun-day's reflexion, a heavy operator, watching his opportunity, sold a million of dollars on Monday at $168\frac{1}{2}$ cash, and officred to du-plicate the contract. This fairly broke the head of the rise, and the price fell to 155. The closing price at 2 o'clock to-day was 148 The loan market continues easy at 4 per cent., and even as low as 3 per cent, on government collaterals, with an abundant sup ply. Discounts are effected readily at 5 to 6 per cent. on first

FRIDAY EVENING

phy. Discounts are elected readily at 5 to 6 per cent. on urst class paper, second best 6¹, @ 7. Foreign exchange inactive. Bankers' bills on England 107@ To regime exchange inactive, numbers bills on England 10400 10.5_{15} for commercial; 10.5_{25} (0.053_{15} (0.053_{15} (0.053_{15} (0.053_{15} (0.053_{15})), 0.053_{15} (0.053_{15} (0.053_{15}), 0.053_{15} (0.053_{15} (0.

Amount. Profit to Gov. \$10,495,000 \$16,391,418 Purchases, 10-40s. 1,550,000 Funding 5-20s. 22,769,900 665,549 900
The 5-20s were sold or exchanged for 7-30s and compound
notes and greenbacks, at an average rate to the Government of
nearly 103 per cent.
Thursday's mail brought the news of the failure of the Agra
Bank, late the highly respected private firm of Masterman, Peters
& Co., who had been established upwards of a century. Its last
published accounts show a total on either side of £17.832,258.
The enormous increase of foreign importations into this city is
shown by the official returns from July 1, 1865, to April 30, 1866.
The total received being \$111.647,128 against \$45 198.980 for the
same period in the previous year, and \$70,339,866 in 1863-4.
The exports of specie from this port have been for the week
ending June 16
Previously reported
Total since Jan. 1, 1866
Iron,-Pig iron is firm an ' held at higher prices. American
No. 1 is still in short supply, and the producer is sold in ad-
vance of manufacture. Sales are noted of 800 tonsScotch, at \$45
@\$48. There is an advance of \$5 per ton on Bar, with an upward
tendency.
In Steel-There is no great demand, but the prices have ad- vanced in sympathy with other goods.
CopperThe speculative transactions have been considerable

topper.- the spectrum of the advance in gold and the fa vorable prospects from abroad. Sales of 500,000 lbs. Baltimore, at $32c.@32_{1,c}$; 200,000 Portage Lake at $31c.@32_{c,c}$ and small lots etroit at 331₂c. Sheathing and Yellow Metal have not been ulated in, and prices are unchanged. of Detroit at 331.c.

Tin-has been largely dealt in, but at present is held firmly thout many actual transactions. 1,600 slabs Banca are to go t gland. Plates are higher.

Lead-somewhat inactive, but held firmly.

Spelter—has advanced to 12c@14c. The imports and exports of metal to Great Britain during the past year were as follows : copper imported-ore, 82.562 tons regulas, 36,686 lons; unwrought, 7,026 lons; old, 427 lons; part wrought, 14,691 lons; plates and sheets, 105 lons; plates for coin, 519 lons; manufactured and engraved plates. 30.054 lons. Copper exported , chiefly manufactured), total 31.609 tons Tin imported, 5,609 tons, and 639 tons of ore; the exported, 5,186 tons of British, and 2,005 tons of foreign. Zhe imported, 1,506 tons; exported, 4,461 tons of British, and 3,771 of foreign. Lead im-

xported, 3.401 tons of British, and 3.771 of foreign. Lead im-orted, 34.903 tons of pig and sheet, 5.584 tons of ore, 29 tons red, ad 72 tons white; exported, 34,718 tons. **Petroleum.**—The market is very dull. Sales of erude at 25c 26c, and 49c/6414; c for refined in bond. Crude for July delir-ry, 504; c. The exports have been for the past week. [81,101 blasses and the provided in the past week. [81,101] gallons ; and since 1st of January, 12,043,779 gallous, against 3,793,618 gallons for same time last year.

(23) 618 gamous for some time fact year.
Salt,—West India has been in good demand. Sales of 20,000 ushels and 9.000 sacks Turks Island. Factory salt quiet.

Coal.-In coal there is no change to notice. The following is a tatement of coal transported on the Delaware and Hudson Canal, ment of co for the week ending the 16, 1866 :

WEEK.	SEASON.	
Delaware and Hudson Canal Co 45,496	424.886	
Pennsylvania Coal Co 1,303	7,167	
Total tons	432,053	
For the same period last year :		
Delaware and Hudson Canal Co31.638	231.162	
Pennsylvania Coal Co 236	15,468	

NEW YORK METAL MARKET.

1	(CORRECTED WEEKLY.)				
1	ANTIMONY Regulus, P 16	00	121, 08	00	13
1	Crude				
	BORAX		33		
	BRIMSPONE	67	50	7:1	
	COPPER-Ingot. Lake Superior, P 16., cash.		31		32
	Baltimore		301.		
1	Fig Chili		28		
	Bolts		43		
	Braziers		42		43
	Sheathing		45		
	Yellow metal		33		
	Inon-Pig No. 1 Scotch, 79 ton		00		00
	No. 1 American		00		00
	No. 2 6	43	00		00
	No. 2 Charcoal				00
•	BarSwedish, ordinary sizes	165		* *	
2	Amer. and Eng refined.			130	00
5	common			115	
	Contribution	110	00	110	00

 $\begin{array}{c} \cdot \cdot \cdot 85 \\ \cdot \cdot 56 \\ \cdot 145 & 00 \\ \cdot 122 & 50 \\ 150 & 00 \\ 122 & 50 \\ 155 & 00 \\ \cdot \cdot \cdot 28 \\ \cdot \cdot \cdot 634 \\ \cdot \cdot \cdot 25 \\ \cdot \cdot \end{array}$ Rails, American currency...... English gold..... 155 00 Horse shoe iron..... Rods 5-8@3-16 rd. and sq..... Rols 5-863-1676. and 8q. Band. Nail rods, 5-8 and 5-16. Hoops. Sheets, Russian, 29 lb. English American Boiler Plates, English. Boiler Plates, English. Boiler States in bars, war. Best cast lo bars, war. Best cast circular saw plates 46 in. 185 00 220 00 ... 30 ... 9 ... 25 % 26 26 STEEL 46 in. Double shear steel, war. $\begin{array}{r} 32\\ 26\\ 23\\ 17\\ 17\\ 14\\ 16\\ 22\\ 20\\ 28\\ 16\\ 22\\ 20\end{array}$ Single " " " … Montague & Co. C. S., in bars Round machinery cast..... Best German...... Government German...... Government German..... Eagle German...... (L.) Blister. war..... W_yJessop & Sons, blister, war Double retined..... one Axe shapes. 2d quality sheet...... 3d quality sheet American, per 100 lbs.. German..... LEAD. 6 80 6 80 6 87 ½ Gold 6 621/2 6 621/2 6 621/2 Spanish English. 9 11½ 19½ 18½ 20 19 19 TIN Strai
 Straits
 Exp[i: h.

 IC 10-14 prime charcoal.
 IC 10-14 prime charcoal.

 IX 10-14 *
 *

 IC 12-12 *
 *

 IC 12-12 *
 *

 IC 12-12 *
 *

 IC 12-12 *
 *

 IC 14-20 *
 *

 IC 14-20 *
 *

 IC 14-20 *
 Coke.

 IC 10-14 Coke.
 Lebigb. per Ib., gold.

 Foreign *
 *

 Yourrency.
 Mussulman & Amer.

 No. 1
 *
 TIN PLATES 19 50 14 75 $\begin{array}{c}
 12 \\
 12 \\
 12 \\
 00
 \end{array}$ 14 50 6% 10% 14% 24 22 80 SPELTER 11 15 ZINC..... vo. 1.... vo. 2.... QUICKSILVER LONDON METAL MARKET.

d Best selected, per ton. Tough Cake & Tile, per ton. Burra Burra "'' Copper wire, per Ib. "tubes, "' Sheathing & Bolts, per ton. Patterne COPPER Old (Exchange)..... Bars Welsh in London..... Do. to arrive.... $\begin{array}{c} 8 & 0 & 0 \\ 7 & 12 & 6 \\ 9 & 5 & 0 \\ 8 & 17 & 6 \\ 10 & 0 & 0 \\ 10 & 10 & 0 \\ 11 & 0 & 0 \\ 4 & 10 & 0 \\ 5 & 0 & 0 \\ 7 & 5 & 0 \end{array}$ IRON Bars Welsh in London... Do. to arrive..... Nail rods... Do. Stafford in London... Bars Hoops '' Sheets, single..... Pig No. 1 in Wales. Refined Metal, do. Fig No. 1 in Wales. Relined Metal, do. Bars Common do. Do. Merch. Tyne or Tces. Do. Railway in Wales. Do. Sweide in London. To arrive. Pig No. 1 in Clyde. Do. 1 in Clyde. Do. 1 in Clyde. Do. No. 3, 4, f. o. b. Do Railway Chairs. Do. Spikes. English Pig Common. Do. ordinary soft. Do. Sheet. Do. Red Lead. Do. Whit. Do. Red Lead. Do. Whit. Do. Fatent Shot. Spanish. 6 15 0 3 0 0 LEAD 21 7 22 15 Spanish. Swedish in kegs, rolled, p ton Da hammered. STREE. Po. in faggots . English Spring. .Per bottle..... QUICASILVER.. SPELTER..... Foreign, per ton..... To arrive a to In Sheets..... ZINC..... TIN..... heets..... lish Blocks.... Do. bars in barrels..... Do. refined..... Banca.... 1 7 0 1 13 0 7 10 0 SALES OF ORES. SILVER LEAD (FROM AUSTRALIA).
 BOLD 25TB MAY.

 TONS. PRICE PER TON.
 PUBCHASERS.

 10¹5
 .414
 16
 Locke. Blackett & Co.

 19
 15
 12
 6
 Do.
 do.

 2¹5
 10
 0
 PAInther & Co.
 2¹5
 10
 0
 R Mitchell & Son.

 20
 13
 2
 0
 Do.
 do.
 6¹5
 10
 do.

 20
 13
 2
 0
 Do.
 do.
 do.
 do.
 6¹5
 10
 do.
 SOLD 25TH MAY. Wheal Coglin ... Do. Do. Glen Osmond. Do. Wheal Coglin. Do.

TONS. PRICE PER TON. FURCHASERS. ... 370 £13 15 6 Walker, Parker & Co. (CONTINUED ON PAGE 204.)

246 630

Minera

NEW	YORK	STOCK	MARKET.	

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no are an entr

NEW			_		_		_						E	BOS'	TOP	I SI	COC	K MA	RKE	T.			
MINING	June BID. AS	16. KED.	June BID. A	SKED.	June BID. A	9 19. SKED.	June BID. A	20. SKED. 1	June	21.	June ND A	22. SKED.	Reported for the Jo	urnal	of N				& Co., 9	9 Stat	e Stre	et, Bo	stop.
a Elmore	3 00	3 25	8 25		3 15	3 25	3 25					3 25		Inne	15		16	L. June 18.	hue	19	Inne 9	0	June 21
iona. nerican Flag		1 75			• • • • •			2 00		2 00	2 25		Companies.	HID.	ASKED.	BID. A	SKED.	BID. ASKE	D. BID. A	SKED.	BID, ASH	SED. B	ID. ASSI
nerican Flag. lantic & Pacific tes & Baxter Gold nton Gold	2 00	3 50	2 80 1 50	3 50	1 00	2 50	2 50 1 75	3 20 . 2 00	1 50	3 25	1 50	$\begin{bmatrix} 3 & 25 \\ 2 & 00 \end{bmatrix}$	Belmont	3 50	4 00	3 00	3 50				3 00 3	3 50 3 70	00 3 40
btail Gold	1 85	1 45 3 00	1 40	1 45 3 50	1 40	1 50 3 00	1 40	1 45 3 00	1 40	1 45 3 00	1 40	1 45 3 00	Eagle Hill Mutual Bear Valley					. <i>H</i>					
llion Consol, Min'g. Co psolidated Gregory rydon	14 50	4 70	5 10	15 25	14 75	14 80	14 50	14 75	4 25	4 40	14 60 1	14 90	Contineutal Franklin Gilberton	7 50	8 90	7 50	8 90				6 70	7 00 5	50 6
rydon wpieville Gold gle Gold.	43	1 75	48	1 52 49	1 45	1 50 50	1 35	1 40 53	95 50	1 10 54	1 00 50	1 25	Giberton Glenville Harleigh Lackawana	10 50	5 00	10 50	5 00				19 50 5	5 00	
													Lackawana.	10 00	7 50		7 50					7 50 5	5 00 7
nnell Gold	85	90 5 00	85	90 5 00	90	91 5 00	90	95 5 00	88	92 5 00	85	90 5 00	Lorberry Locust Dale Mammoth Vein Mount Pleasaut	17 50	20 00	17 50	20 00				17 50 3	0 00 1	00 19
nnell Gold nnell Central Iman pe Gold pet & Buell Gold	35 2 75	37 3 50	32 2 70	36 3 50	33 2 50	34 3 50	31 2 75	35	32 2 75	35 3 25	$\frac{32}{200}$	38 3 50	Mount Pleasant	28 00	30 00	$11 25 \\ 128 00$	30 00				18 00 3	0 00 25	00 30
pp & Buell Gold berty Gold ebig Gold	1 40	1 60	1 40	1 50	1 35	1 60 20	1 30	1 40 20	1 30	$ \begin{array}{r} 1 50 \\ 25 \end{array} $	1 85	1 40 25	Short Mountain	25 50	27 0	0 25 00	32 00 26 00	•••••			24 00 2	5 50 28	3 00 24
													Summit Branch	13 50	14 00			NG.	**,*****		13 00 1	0 00 14	00 10
w York. artz Hill cky Mountain Gold		40				40				1 10 45		95 45	Albauy and Boston Bay State	1	10						10	1	1214
artz Hill	3 95	4 15 2 50	3 95	4 10 3 50	3 80	4 20		4 45	3 75 2 55	4 20	$\frac{3}{2} \frac{70}{65}$	4 10 3 00	Boston	1 34	13	12 ¹ 2 80					24	14	··· ·
the for Deservice Contra	*****	*****	*****	*****				*****					Central. Concord Copper Falls. Frauklin. Hancock. Hurnboldt. Hurnon Jelo Powat	312	4	3					3		314
as Gold. sas Gold. diord Copper edonia Copper nada Copper regreen Bluff Copper ergreen Bluff Copper	39		43	50	41	50 45	24 43	30 50	23 43	30 50	42	30 50	Franklip.	42 4234	43	42 4	43				42 8	4212	$42\frac{3}{4}$. 4 237 2
dingham Gold		14 00		14 00				14 00					Hancock. Humboldt	20%	201	2 20%	21 5				434	141's 1	23^{+}_{8} 2 5^{+}_{2}
edonia Copper		4 00		1 10		1 00		4 00		4 00	1 00		Huron Isle Royal	. 40	43 13	1012	13				111.	12	
ergreen Bluff Copper ench Creek Copper		10 00											Isle Royal Mesnard Minesotaasst. pd	1.4	11	$4 13_4$ 10	11				$1\frac{2}{10}$	$\frac{2^{1}_{4}}{12}$	10 4 1
iton Copper													National	53	6	15	19 61					478	478
pper Falis.													Pewabic Phœnix	. 36	37 11	00						20	36 3
anch Creek Copper ton Copper oper Falls. eldon & Columbian Cop owiton Copper undota Copper unesota Copper unesota Copper ima Copper	4 00	9 70	4 00	9.92	4 00	3.75		9 50	4 00	3 40	4 00	4 00	Distal		5.0	45	50 11	2			-45	130	45 4
mesota Copper		14 00	*****	0 10				14 00	•••••	0 00			Pontiac Pontiac Quincy Rockland South Side Star asst nd	. 471	49	47	6				5	4812 53	47 ·
rwich Copper	*****			1 00									South Side	. 2	23	4 17	40				1.5/	210	14
erior Wisconsin													Superior	33	á	35	33				3	358	332
cenix Lead & Mining Co	10						10	20	10	20	10	20	Superior. Toltec Wintbrop. Consolidated Gregory Gold Quartz Hill Gold Smith & Parmelee Gold.	13	2	15	15 0				114	2	4 95 1
dwood Lead	75	2 75		2 75	7	1 00	65		50	2 13	65	1 00	Quartz Hill Gold	. 3 9	0 4 0	10 3 9	4 1	0			3 80	4 00	3 75
umbian Coal													Sunta & Farmence Gont					LEUM			5 10	. 10	0.000
e Superior		1 00					5			1 0	·····		Beebe Farm	. 5 0	0 6	00 5 0) 60	0			5 00	6 00	5 00
to Superior ake Iron													Boston and Kentucky Boston Oil Creek Land Co.	1 2	NA .	30 1 30 1	5 3	0			15	30 30	15 15
gle Gold		5 00	5 00		5.0				5 00		5 00		Boston Petroleum Oil Co Boston Petroleum Oil Co Botolph Oil Well Co Crescent Petroleum Co	. 6	0 2	00 6 00 7	$ \begin{array}{c} 0 & 2 \\ 0 & 5 & 1 \\ 0 & 1 \\ \end{array} $	0			60 75		$\frac{60}{75}$
ckland ckland Boyal itish American Coal.		16 00						12 00		16 0		14 00	Crescent Petroleum Co Everett Oil Co	- 7	5 1	20	7 2	0			7	1 00 25	75 7
nceton Copper													Everett Oil Co. (Pref. Stock) Farrar.	4 5	0 6	60 4	0 6	i0			- 40	1 00 6 00	40
OIL STOCKS.	1		1		1	•	-		t		1		Enller Farm		5	25 1	5 2				15	25 20	15
nuchoff Run	. 11 90	12 00	11 5	0 11 70	0 11 2	5 11 6	511 2	5 11 4	11 25	11 3	3 11 55	11 80	Great Basin. Indian Spring. Mass. and Oil Creek	. 1	5	30 1	5 3	10			15	30 36	15
chanan Farm	. 2 50	2 6	2 3	0 2 6	0 3 5 2 5	2 3 3 0 2 6	5 3 0 2 4	0 2 7	32	26	$ \begin{array}{c} 4 & 31 \\ 0 & 2 & 50 \end{array} $	33	New England. New York and Boston Pepper Petroleum		6	25	8 5	25			. 8	10	6 40
celsiorst National	36	4	9 3	6 40 8 10	0 3	6 a	9 1	6 40 9 1	30	1	0 40	10	Pepper Petroleum	3 5	0 3	90 3 5 15	0 4 0	00			3 00 2	3 50	3 00 2
Y. & Alleghapy	- 2 35 - 4 50	4 8	23	5 4 9	$ \begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \end{array} $	0 3 0 0 4 7	0 2 3	9 4 5	4 05	4 2	5 4 15	4 50	Pittsburgh and Boston Tremont.	2 (0 3	00 2 0	0 30				2 00	3 00	2 00
rthern Light Creek of N. Y Hole Creek	20			. 6	0 3	0 4	5	4	5 20	20	0 0	40	Suffolk and Oil Creek Winthrop. Independ. of U.S. & C.W.		2	15	2 1	15			2	15	2
nd Farms	2 50	25	5 2 7	0 2 8	0 2 7	0 28	5 2 3	0 2 5 0 2	0 2 30 6 21	27	0 2 30 5 22	2 40 2 25	New York Companies			÷.		1					
nd Farms ade River	· 40	6 5	5 3	7 4	8 4	1 4	9 4 5 6 5	1 4	9 50 0 6 85	6 9 b	3 48 5 7 20	5 55 5 7 25	Bennehott Rva Bergen Oil and Coal	11 3	30 11	50 11 9	0 12 (. 11 25	11 30	11 25 1
													Bradley			35 5	à ····		**** ****	* ****		35	30
nion. apire and Pit Hole pango & Pit Hole													Central	2 4	10 2	55 2 5	0 2 0	30			2 40	2 50 25	2 40
ien wright.													Consolidated								15		
rgen Oil & Coal nnchoff & Pit Hole uitable													Consolidated Empire City Empire and Pic Hole Excelsior			00 1					. 19		
e Simple rest Co. Petroleum Co													I Northern Light		241 2	50 L I	M) Z (311			. 1 39	- OU	1 .00
Western Consolidate nild Farm.	a												Oceanic. Oil Creek. Palmer Petroleum		20	40 5	0	40	• • • • • • • • • •	· · · · · ·	. 20	-40	25
VULLCK Bros													Palmer Petroleum President			35			**** ****			*****	*****
bmowack lly Run.													President. Pit Hole Creek. Rynd Farm.	2	30 2 20	40 2 4 27 2	0 2 1 1 1	b⊎ 26			. 2 30 . 24	2 50 28	2 30 20
k Shade Fetroleum nn. Oil Creek esident													United States	. 6	60 6	75 9 3	0 6	60			6 50	6 65	6 85
													Webster. Shade River										
erman & Barnsdale erman Oil												· · · · · ·	PRICES OF ASSAVI	NG D	MPL.	MEN	TS *	CHEMI	CALLY	РШ	RE PI	REPA	RATI
FREE LIST.			1						1		1		CORRECTED				10.	* USED	IN TH	E VO	LUME	TRIC	ASSA
ennehoff Run Oil	. 2 8	5 3 0	0	. 27	0 2	50 2 0	65 2 2	5 2 7	5 2 6	0 2 8	5 2 6	5 3 00	Smelting Furnaces		\$3	5 00@	40 00	AT AT	etic				\$0 0
													Cupelling "Scales		10) 00(a	30 00	1 · · H	vdrochole	Dric			0
ooklyn adley		. 9	0	5	. 4	10 I 3	50	. 10	0 3	3 1	0 12 ($ \begin{array}{c} 1 00 \\ 6 12 \end{array} $	Assay Balances and Wei Plumbago Crucibles			25(a)	1 50	14 .02	alic				0
veniveri adley. adley. inton Oil. msolidated (New York npire City Pet'm Co. electic Oil. miskillen.	0 1	5 2		. 2	25	0 1	20 1	8 2	0 1	8 1	22 1	5 20	Paris Porcelain Evaporating Di	shes	•••	2500	$ \begin{array}{c} 1 & 25 \\ 5 & 00 \end{array} $	AMMONIA	Carbona				0
psolidated (New Yor)	()					. 1	25	5 3		5 5		0 30	Fire Tongs Hammers			1 00(a)	$\frac{3}{2} \frac{50}{50}$	56	Hydrate Nitrate.				0
lectic Oii	1 0	20	0									. 2 00	Funnels Litmus Paper, quire			15(a) 1 00(a)	$ \begin{array}{c} 1 & 00 \\ 1 & 25 \end{array} $	BARIUM.	Chloride				0
ermania.	1 1	0 1	1		50	10	12 1	0 1	2 1	0 1	$12 1 \\ 10 7$	0 11	Ingot Moulds Flasks, Bohemian Glass.			1 25(a) 15(a)		IODINE	Sulphate				0 0
eydrick	1	6 1	9 1	18 2	20	15	20 1	8 20	0 1	6 . 5	10 7 20 1	8 20	Sand Baths, Iron			25(a)	1 00 2 00	LEAD, N	quichlor trate	ide, Cr	yst		0
amilton McClintock eydrick igh Gate berty						5	10				15 25		Plyers. Mortar and Pestle, Iron, A	gath.e	etc	50(a)	20 00 5 00	MERCERY	Peroxic Protoni	itrate		••••	0
anhattan	1	5 5	20, 1	5	25	15	$\frac{30}{20}$ 1	5	: ``i	5 5	⁵⁰ 20 1	. 30 5	Lamps, Gas and Alcohol. Blowpipes			50(a)	3 00	POTASEA,	Chlorid Carbona	e te			0 0
iberty. it. Vernon. anhattan. iational. iew York & Newark iew York, Phil. & Bait econd National		6 1	2		ii 1	00 10	12	5		8	10	7 19	Hydro-Oxygen Blowpipes Pincers, or Cutting Flyer	8		5 00@1 75(a	1 50	4. 4.	Bichron	nate			0
ew York, Phil. & Balt econd National.				. 1	12	10	50	25	5	. 1	15	4 10	Glass Tubes. German, etc Muffler	per	16	50(a)	$ \begin{array}{r} 1 50 \\ 1 50 \end{array} $	41	Chroma Hydrat	ate			0
econd National ceanic	••	8 1	10	5	10	8	10					6 11	Apvils Cupel Moulds			1 00(a) 3 50(a)	$ \begin{array}{c} 2 & 00 \\ 5 & 00 \end{array} $	41	Ferrocy	vanide.			0
it Hole No. 2												. 14	Canala nor dor				3 50	65	Permai Sulpha	te			0 0
et. Consolidation		5		12 1	17	10	15	0 1	15 1	1	16 1	0	Test Lead, "			50(a)	75	SODA, AC	Nitrate.				0
ask Detaslan		. !	20	3			25			0	20	. 1	* These articles can be	h PROG	pred a	t the	stated	1 1 C	arbonate				0
vet. Consolidation ack Petroleum Co., N. Juited Petroleum Farm Vest Va. Oil & Coal Co	4 0	0	41	00	3	50	3 !	50	. 40	0	40		rates, by sending order,	s proc	Am int	in co é		I II II	lydrate hosphate				0 :

UNITED STATES SECURITIES Reported for the Journal of Mining by Messrs. MEIGS, VON SEYBOLD & CO., No. 4 Broad st., New York. Friday Evening. NITEREST. WHEN OFF. ASKED LOINS AMOUNT OUT-

RA	PRU		PAY	ABLE.	CENT.	CENT
3	1		Jap.	July.	125	136
16	1568		Jan.	July.	12736	130
{ 5	1871		Jan.	July	1045	
1	1874		Jap.	July.	99 102	
6	1-41 1851 1881		Jan.	July. July.	106	106%
5	1882		May	Nov.	102%	103
1	1.0000		May	Nov.		
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(CONTINUED FROM PAGE 202.)
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 North Dewns., 40, 170 0 0

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wheat losse, ...,220. 841 18.6 Average Standard, £164.0.0; Average Produce, 67_8 ; Average Frice per ton, 54.8.0; Quantity of Ore, 2.484 tons; Quantity of Pine Copper, 170 ton; 12 cwt; Amount of Money, £10,913 19.6 Previous Average Standard, £115.2.0; Average Produce, 545; Standard of corresponding sale last month, £110.12.0; Pro-duce, 62_8 .

BY WHOM PURCHASED :

NAMES.	TONS.	AMOU2	T.
Vivian & Sons	401 24	£1.784 1	6 4
Freeman & Co		859 1	1 6
Greentell & Soas		1.087 1	4 4
Sins, Willyams & Co		685 1	2 7
Williams, Foster & Co	212 5	1,495	3 0
Mason & Elkington	375 5 6	1.428	5 7
Bankart & Sons		1.324	0 10
Copper Miners' Company			1 3
Charles Lambert		5-23	7 6
Sweetland, Tuttle & Co		1.045	6 0
Penclawd Copper Co	153	68 1	2 4
Hadland & Co	54	93	3 0
Tetal	2,484	£10.913]	19 6

Test for Phosphorus in Iron and Steel.

Mr. John Spiller, assistant chemist of the English War Department, has found that for the purpose of concentrating the whole of the phosphorus contained in the solution of the specimen of iron under examin-ation, in a comparatively small proportion of ferrie oxyd, it is only necessary to aid to the nitro-hydro-chloric solution, after reduction by sulphurous acid, aqueous sesqui-carbonate of ammonium, antil the pre-cipitate which forms, and which is at first red, assumes a greenish hue. All the phosphorus is contained in this precipitate, in the form of phosphoric acid, com-bined with ferrie oxyd, and is obtained as pyrophos-phate of magnesium, by treating the precipitate just as the corresponding precipitate of mixed acetate and phosphate of ferrie oxyd is treated in the ordinary process. Mr. Spiller's modification effects a consider-able saving of time, without in the least impairing the accuracy of the results.—Mechanic's Mag4z^{*}ne. Mr. John Spiller, assistant chemist of the English

SAN FRANCISCO STOCK MARKET. LATEST BY MAIL

NAME.	ғыр Мау	AY, 25.	Sales for week Ending May 25.					
	Open'g	Clos'g	Shares.	Amount.				
Sierra Nevada	\$	\$		8				
Imperial	125	122	276	34.677 00				
Gouid & Curry	730	730	14	10 970 00				
Chollar-Potosi	390	296	450	104 122 00				
Yellow Jacket	610	595	205	120.962 00				
Bullion			145	9,392 00				
Crown Point			145	47.753 00				
Belcher	180	195	164	44.535 00				
Overman	47	27	911	48.225 (10)				
Ophir	350	375	63	190,557 00				
Hitle & Norcross	970	960	10	9.481 00				
Exchequer	8	9	240	9.800.00				
Savage	900	830	9	7.830 00				
Empire Mill	160	160	2	320 00				
Alpha			2	190.00				
Lady Bryan.			2	182 00				
Dancy		1035	20	210 00				
Confidence		80	37	1,200 00				
Baltimore Amer.								
Central No. 2	5	5	2	10 00				
Kentucky Cop. Co			5	60 00				
Golden Ruie			30	600 00				

LATEST BY TELEGRAPH. RANCISCO. June 16. Bid per fo

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 Name. Gould & Curry... Savage. Chollar-Potasi....

Patent Claims.

Interesting to Miners, Millmen, Metallurgists, Oil-Men and Others.

The following claims have recently been issued from the United \approx stess Patent Office :

From the Concentration of the second seco

entime point and angular sectional cutters boffed to the sides of said rod, substantially as herein specified. 55,514.—MACHINE FOR TUNNELING ROCK.—Thales Lind-sley, Rock Island, III. : I chim, Ist. The drill-gauge, substantially as and for the pur-poses specified. Further, the ram-guide, in combination with said gauge, the ram, and the drill-wheel, substantially as herein spec fiel. Further, onstructing the drills and the drill-shafts, and con-meting the same, substantially as set forth. Further, the combination of the compensating springs with the drill-shafts, anbstantially as set forth. Further, the drill-shafts, guides and the nothed collars between the compensating springs, substantially as specified. Further, the drill-shafts guides and the nothed collars between the compensating springs, substantially as specified. Further, the drill-shafts guides and the nothed collars between the compensating springs forming the drill-wheel, sub-stantially as set forth. Further, the growed collar upon the long ram-sleeve and the clutch attached to the rear face of said drill-wheel and working into said collar, substantially as here in specified. Further, the ream and the ram-hammers, substantially as bere-in specified.

in specified. Further, the wedge index, in connection with said hammers, or their equivalents, together with the splitting apparatus, sub-ritantially as set forth. Further the cam-wheel and its adjustable cams for working the drills, sub-stantially as set forth. Further, the drain drill, and the collar upon the long ram-

seve, which serves as its guide, constructed and arranged sub-antially as described. Further, the non-revolving of the ram-sleeve aforesaid, and as non-revolving of the short ram-sleeve of the rear frame of

Stantially as described. Further, the non-revolving of the ram-sleeve aforcsaid, and further, the onn-revolving of the ram-sleeve of the rear frame of the non-revolving of the short ram-sleeve of the rear frame of the machine, as specified. Further, the combination of the valves receiving the com-pressed air to the ram-cylinders, and the valves discharging it from them with a hand lever, so as to control the action of the ram, etc., by a touch of the engineer, substantially as set forth. Further, the supporting of the machine upon friction-wheels, beveled upon their face, substantially as set forth. Further, moving the drilling apparents back and forward by means of the ram-cylinders and their connections, substantially as set forth. Further, moving the ram back and forth at any velocity de-sired by the engineer by means of suid ram-cylinders, and the toggle-levers, substantially as set forth. Further, moving the curve and their necessary appendages, substantially as set forth. Further, the bracket drill, constructed and operating substan-tially as specified. Further, the bracket drill, constructed and operating substan-tially as specified. Further, the bracket drill, constructed and operating substan-tially as specified. Further, the bracket drill constructed and operating substan-tially as specified. Further, also the hauling out of the debris by means of the drag-puley and its appendages, substantially as specified. Further, the bracket drill constructed and operating substan-tially as specified. Further, the bracket drill constructed and operating substan-tially as appendages, substantially as specified. Further, also the hauling out of the debris by means of the drag-sule and its appendages, substantially as specified. Further, the combination whereby the ram and the drill-wheel

Further, also the hauling out of the debris by means of the ram, and the tackie and clamps appended, substantially as spe-cified. Further, the combination whereby the ram and the drill-wheel are united and recolved, substantially as set forth. Further, in combination with a machine, constructed substan-tially as herein set forth, the method of leveling the same trans-versely of the tunnel, and of adjusting it to the grade line of the excavation, as herein specified. Further, the combinations by which the ram-cylinders operate without the oscillating cylinders or in conjunction with them, and wc: verse, by which the bracket-drill works independently of the drill-wheel, or simultaneously with it; by which the drag-pulley haulis rock independently of, or contemporaneously with the samg-pulley, and rive zerse, by which the drill-wheel revolves without the cam-wheel or in conjunction with them, and wc: verse, by which the bracket-drill works independently with the samg-pulley and rive zerse, by which the drill-wheel revolves without the cam-wheel or in conjunction with the machine forward and backward, whils the oscillating cylinders through the drag-pulley are hauling out rock from the badding; by which the drills are kept home to their work and at the point of maximum action, and by which the bottoms of the con-centric channels are kept relatively in the same plane, what-ver the disparities in the hariness of the rock cut; by which the run is permitted, at the will of the engineer, to move inde-pendently back and forth and without shock to the machine from the oscillations; by which the drills ior the heading are kept cool, the dust from them laid, and their minute chaps sweet out of the concentric channels into the commou drin; by which the drain is cut in the bottom of the tunnel prailel with, and direct y under, the axial line of the same; by which the machine progresses forward and backward with or without the corres vience of arailroad, and by which the tunnel, dirick the, are sup-plied with an abundan

Wise; all of Winch substatually as presented. 55,557.—COAL ELEVATOR.—John P. Tucker, South Read-ing, Mass.: I claim the combination of the slotted arm. E, the curved lever, H, provided with the tripper, C, the director, J, the scoop, I, and the rope, K, with the gallows-frame and its discharging chute; the whole being arranged and made to operate substan-tially as above set forth.

Special Scientific Brevities.

The British Admirally have determined to give the Monitor system a sovere trial by firing a steel bolt at one of the turrets at short range, from an Armstrong 10-incb, or 300-peunder gun. It is to be remembered that the Eaglish turrets are not precisely like ours. They are made or wood, with an irou plating, while ours are all iron. The Eaglish construction is alhered to in order to have a difference, in spite of the fact that this difference brings with it some decided inferiority.

ar The evaporative value of a fuel can be better the interference of the second secon

Ar An alloy consisting of ten parts of cast iron, ten of copper, and eighty of zinc, does not where to the mould in casting, and it is of a heautiful luster when filed and polished. The most fractious metals are melted first, and the zinc last, in

so An error in placing a fine dot which fixes the gth of a base line in astronomical measurements, amounting length of a base line in astroomical measurements, amounting to 1-5 000th part of an inch, will amount to an error of 76 feet in calculating the diameter of the earth 306 miles in the sun's dis-tance, and 65 800,000 in the distance of the nearest fixed star.

Significantly enough the mail brings news of an plosion in Australia of a quantity of nitro-glycerine, with ter-le results. It is remarkable to have so many accidents sud-uly spring from an unknown substance.

When water is boiled under oil and the steam 2.0 n, proving the of wa

AF The well-known value of phosphate of lime as a nure is now attributed to a power which that substance not putrifying flesh

The use of cotton is literally universal. Out of 1.275,000,000 weaple in the world, 700,000 wear it exclusively. but 70.000.000 use it n

ar One of the ancient aqueducts which supplies 20 to form a perfect syp

k Ivory may be rendered quite flexible by soaking in hydrochloric acid. On drying it becomes hard again, but flexibility

or Ozone is found to be developed by the mechanithe healthfulness of winds.

Mineral and other On-dits.

FT It is stated that the rock on the western end of

friends, lasted only sixty feet, and the same quicksands are en-countered as before. The legislature at its late session appro-priated \$900,000 for this undertaking, and will probably have to add to it thrice that amount before it will be completed.

add to it thrice that amount before it will be completed. Several meteoric stones fell at Nashville on the 12th, near the railroad depot. They were of a bluish color, and were quite hot when first discovered. Geologists say that noth-ing similar has been found in any other part of the world. Two specimens have been forwarded East for further examination.

For the source of the sector of the sector in the sector of the secto

The celebrated English chemist, Dr. Thuspatt, has found a spring, the water from which contains as nuch as lu-grains of per chloride of iron to the gallon, more than any other grains of per c known spring.

AP A peculiar iron ore has been discovered in Luc-ad. It looks like plumbago, and leaves a greasy fiel, but by alysis contains 90% parts of fenie oxide and 9% of insoluble analy:

Crystals of gold, iridium or platinum can be obmp

for The French collieries produced 10,500,000 tons of coal in 1965. Resides this, nearly 6.000.055 tons of coal and mp

Gold Hill, Nevada, are just beginning to respect the Sabbath. The roads to Montana are said to be crowded with wagens, conveying mills, etc.

All Sorts.

A most extraordinary occurrence took place along the line of the Nashville and Decatur Railroad, between Columbia and Pulaski, lately, during a thunder storm. A full mile of the tolegraph wires were meited, and divided over that whole distance into small fragments, irregular in shape, and many of them no longer than a buck shot or a small rile bail. The fragments found along the whole distance, would not, if put to-gether consecutively, make more than thirty feet in length. The glass insulators were bursted, and the poles shivered into frag-ments.

Statistics are tyrannical and mysterious. It is hard to believe that the Ganges bears down hourly a mass of de-posit, equal to so many Egyptian pyramits; and we were stug-gered by the information that a penapy put out to compound inte-rest in the time of Adam, would be now worth many hundred globes of solid gold, each equal in size to the earth. We are now called upon to accept the stupendous fact discovered by some cu-rious Englishman, that 4,000,000 sermons are annually delivered in London.

Ar Englishman having invented a new system of logic part pro-An Explishman having invented a new system of logic, next pro-ceeded to make a machine which, will return true answers to lo gical premises, read off on the keys of the instrument just as piano returns related sounds in response to finger touches. The machine is to grain its first fame in the exposure of scientific tal

dan's t Most everybody has heard the anecdote of Sheridan's telling his son to take a wife, when the son repried, "Yes, father, but whose wife shall I take?" A similar story is the fol-lowing. A young gentleman says to the Colonel a few days since. "Colonel, I wish to start a newspaper." "Yery well," replied the Colonel, "which newspaper do you wish to start?"

are collars, "which newspaper to you wish to start?" For Every nation that has a place in the Paris Exhibition is to have also a restaurant, where the pocular tastes of its people are appealed to. Polynesia is to be largely represented, and Explusion what so. We may therefore expect the most show of blubber, "slush," " bird's nest" fricassee and rat.

163: How of blubber, "stud, " bluge, angrill, to a blunt old quaker, from whom no direct answer could be obtained, ... do you know what we sit here for?" "Yes, verily 1 do." said the Quaker, "three of you for iour dollars each aay, and the fat one in the middle for four thousand a year."

an use made for nour thousand a year."
Appendix Appendix

ar The English iron-clads have the following speeds at deep-draught, and running over a measured mile, under the most favorable circumstances; Warrior, 14:336 knots per hour; Black Frices, 13:304; Delence, 11:618; Resistance, 11:534; Hec-tor, 12:36; Valiant, 12:383.

Ref. A new lens for photographers' use is made in Germany, with a focus of 10 to 23 menes, the larger covering a plate of 30 by 20 mehes. It is composed of two lenses of crown glass, and is perfectly achromatic. Its principal use is for land-scapes.

Are it is proposed to make lucifer matches by put-ting the phosphorus on first and the sulphur over it. In rubbing the sulphur will break or wear off and expose the phosphorus to friction. Such matches will not take fire so easily.

Telegraph poles in South Australia are made of makegany at a cost of about four dollars and a half a piece, be-cause other wood will not stand the climate and burial in the ground.

sor It has been noted as a remarkable fact that th n fever and ague are very common in North and South ad Virginia, the Dismal Swamp is entirely free from i

137 It is proposed to make Greenwich time regulate all the clocks of Great Britain, by means of electrical connection.

The first volume of a Hindoostanee translation of Shakspeare has been issued at Bombay.

arked by very much decreased rainfalls.

working a lead mine at Easthampton, Mass.

The friction of a smooth disk revolving in water is about 2-150ths of its weight Amador county, California, is turning out white

Special Notice.

We are continually in receipt of communications from persons owning mines, asking us to recommend to them some resulde broker in this city in whose hands they can safely place their pro-perty. How important, then, for such persons to advertise in the Joursat of Muxro, whose while circulation would bring their names before the eyes of the entire Mining community.

WHAT IS SAID OF THE "JOURNAL OF MINING" BY THE PRESS.

From the Brooklyn Programme, June 19.

BY THE PRESS. From the Brooklyn Programme, June 19. The Jorensa of Mixus.—The mining interest of the United States has grown to be of vast importance, since the great mineral resources of our. South-Vestern Territories have become known. A grand field for enterprise has been opened, and an immense immense of a south-Vestern Territories have become known. A grand field for enterprise has been opened, and an immense immense of earliest is being invested in mining. Companies are springing up all over the country, and mining stocks are among the most favorite investments. So extended an interest requires some organ for its representation, for the dissemination of know. Joursat of Mixus, recently started in New York. It is a nearly printed paper of sixteen pages, and contains a great variety of soft information and interesting infoligence on Miang, Miang, Oil Boring, Maeralogy, Metalingry, etc. We und to the eleventh number, a hist of maing companies, with their location, stock, etc.; the latest intelligence and discoveries at the mines, descrip-tions with indistrations of machinery. The scientific paper dis-paper to all interested in mining and the mineral resources of the county. The dorexat is published by Messrs. Western & Co, 37 Park Kow, N. Y. The subscription price, it per nature. From the Briths (Vancouver Island,) Colonist, May 15.

From the British (Vancouver Island,) Colonist, May 15.

From the British (Vencouver Jiand,) Colonist, May 15. New MININO JOURNAL — Among our budget of exchanges re-ceived by last mail we liad the Amsuack Journal or MINING, Milling, Ol-boring, Goology, Mineralogy, Metallurgy, etc., pub-lished by Messres. We tera & to., 37 Fark Row, New York, and edited by Goorge Frances Dawson. This publication, which is fur-nished to subscribers at the low price of \$4\$ per anuum contains an epotome of the most valuable information on each of the above branches of science, basides treatises on manufactures, discov-eries, inventions and various other interesting scientific subjects. The statistics and returns from different parts of the world, which appear in the first number of the Journal timush one of the most complete compendiums of the mining history of the Ameri-can Continent and other parts of the globe that we have yet seen. British Columbia comes in for a large sime of notice, the discov-rise at Big Bond being given in extense of the Fraser over the Columbia River route. A detailed list of claims interesting to muers, millineu, metallurgists, oil-men and others, issued from the Linde States Pitten Office, will be given in each number. We can confidently recommend the Journal or Ministo to miners and others on this coast. From the Oregonian, May 19.

From the Oregonian, May 19.

From the Oregonian, May 19. AMERICAN JOERNAL OF MINING.—We have received the if number of the above entitled journal, published in New Y city, and devoted to the mining and geological interests of country. George Francis Lawson appears as oditor, and hav assumed that position, bouy-d up by the kind assurances of an influential friends, is determined to make it a success. The m ber bofore us is weif filled, containing editorials of a good cl among which is one on the overland route, a ginnee at the mini-situation, etc. A "mining summary" contains matters of in rest from Oregon, Idaho, Montana, British Colombia, Colora and other sections. — The magnitude of the western mining gions" is also the subject of remark. first of int

From the Nevada Daily Gazette (Cal.) of May, 10.

From one Arcoura Loting tracefite (Cat.) of May, 10. JOURNAL OF MINING.--We have received the first number of AMERICAN JOURNAL OF MINING, published at New York by Wess & Co., and edited by George Francis Lawson. It is a sixteen-paper, devoted to mining, oil-boring, geology, mineralogy, mu-racy, etc., and gives a summary of the latest mining mu-racy etc., and gives a summary of the latest mining mu-racy etc. and gives a summary of the latest mining mu-racy and a year. of the AMERICAS & Co., and paper, de lurgy, el en-pag ekiy al

From the Territorial Enterprise, May 12, 1866

EVALUATE: The second second second second second second number of this journal, published in New York city by Western & Co., No. 37 Park Row, and edited by George F. Dawson, whilom of the *Exterprese* and the press of California. The Journal of Mixiso is the handsomest print of its class in the United states, and is edited with ability and tact. It is published weekly at $\frac{1}{2}$ a vear

From the Montana Radiator of May 5th, 1866. We have received the first number of the Assences JoresaL Of Mixnse, published in New York city, and devoted, as its name in-dicates, to the interests of the minor. It is an illustrated sizteen page newspaper, published weekly, ably conducted, and will prove a weicome and valuable visitor to the miner, and, in fact, prove a weicome and valuable visitor to the miner, and, in fact, every one who desires to inform hinself on the subject of mining in its various departments throughout the world. The number beiore us contains articles on "New Rock Drilling Machines," "Coal Supply." a summary of prospects, methods of labor, and mining news of the minoral regions of the United States, "The Great Overland Route," Glance at the Mining Situation," "Pe-troleum," and a number of other valuable and interesting arti-cles. Every news dealer and miner should have it.

From the Reese River Reveille, Austin, Nevada, May 31. New PAPER. — We have received the first number of the **AMERI** CAN JOURNAL OF MINING, a weekly paper published in New York It gives evidence of editorial ability, and furnishes much inter esting and useful matter.

esting and useful matter. From the Mining and Scientific Press, San Francisco, Cal., May oth, 1866. The "AMERICAN JOERSAL OF MINING."—This is the title of a usw weekly journal of sixteen pages, published in New York, the first two copies of which we have just received. Its salutatory ad-dress is brief and modest, making no special promises, except that politics, being entirely "mecompatible with the spirit and scope of such a paper." will be utterly ignored. The typographi-cal execution of the paper is remarkably heat, and its mining summary very complete. The subject of potroleum very properly receives a large share of its attention ; and oil companies, as well as gold and silver mining companies, are tabulated in a very convenient form. as gold as.

From the American Artisan, May 23.

1. rom one American Artisan, May 23. We have received the first seven numbers of the first volu of the American Joursan or Mixino, a weekly periodical cai by G. F. Dawson, published by Westorn & Co., 37 Park R. New York, and lilled with very interesting matter—original sciented—relative to mining oil-boring, and the alhed arts. S scription \$4 a year in advance. Sub

Scription 54 a year in advance. From the Journal of Applied Chemistry, May 1866. AMERICAN JOURNAL OF MINING.—Published by Western & Co. Edited by Geo. F. Dawson, 37 Park Kow, N. Y. Weekly—54 per annum. We have received the first live numbers of this publi-cation. Such a paper, edited as ably as the specimens we have, is needed by those interested in mining. Its leading articles are excellent. We wish it the success it deserves.

excement. We wish it the success it deserves. From the Philadelphia Commercial List. The American Joresant or Mixing is the title of a new sixteen page journal devoted to milling, mining, mineralogy, metallurgy, etc. This new aspirant for the favor of the mining public pro-sents a neat typographical appearance, the selections are inter-esting and well made, and the mining summary carefully com-piled.

CANVASSERS WANTED .- CANVASSERS WANT-Calification of the second state of the second

RON ORES FOR SALE.

The Rossie Iron Works

Are now prepared to make sales of

SELECTED IRON ORES.

from their well-know

Caledonia Mines, in St. Lawrence County, New York. These Ores yield from Fifty to Fifty-five per cent., in the large way, and the quality of the Iron made from them is well estab-lished.

lished. The Ores can be delivered at KEENE STATION, on the line of the ROME, WATERTOWN & OGDENSHURG RAIDROAD COM-PANY, or at OGDENSBURG, as purchasers may preter, and the Oompany's Agents at Ogdensburg will secure freight Westward for the Ore without any charge of commission. Further particulars may be obtained by addressing the Com-pany's Secretary, [9-i] R. GORDON, Box 48, New York.

OIL LANDS FOR SALE.

Thirteen Thousand Acres of Land.

 Thirteen
 Thirteen

 in the Canada Oil Regions, in the Townships of Enniskillen, Dawn Zone, Moore, Brooke and Sombra, for sale or to lease, for Oil pur poses, in portions to suit purchasers. For terms and particulars apply to the proprietor.

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 T. D. LEDYARD, 74 Yonge Street, Toronto.

TO THE MINING PUBLIC.-THE SUB-scribers are now prepared to receive either Gold or Silver Ores, by the Ton or smaller quantity, and make a fair working test of same, and respectfully invite all who are interested in Min Net of share that expected points of which interested in similar states in the second point of the seco They can be reached either by Grand Street Ferry or by Green

oint cars, which pass the door

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Patented by B. Keith, A. Beur and N. S Keith,

SEPTEMBER 9TH, 1862.

Parties desirous of procuring the right to use the process, and INFORMATION OF THE LATEST AND MOST IMPROVED MA CHINERY FOR REDUCING ORE.

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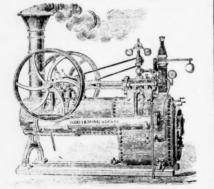
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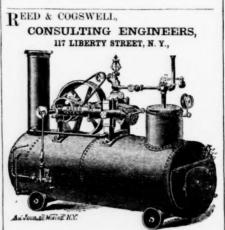
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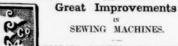


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PROSPECTUS OF THE

Petroleum Fire-Proof Iron Tank Storage Company,

ORGANIZED BY SPECIAL ACT OF THE LEGISLATURE OF THE STATE OF NEW YORK.

APPROVED BY THE GOVERNOR, APRIL 11th, 1866.

ORGANIZATION.

Secretary, S. E. MARVIN. General C. CARY. President, L. S. WATKINS. Treasurer, GEO. S. BATCHELLER. General Superintendent, Hon. ADAM W. KLINE.

Executive Committee : President, L. S. WATKINS; Vice-President, J. C. CARY; Superintendent, ADAM W. KLINE.

The object of the above named corporation is to secure the construction of Iron Tanks, made from boiler iron. rivited, with covers, and to be air tight. These tanks will be located at Titusville and other points in the Oil Regions, near the railroads, where the pipes, conducting oil from wells, terminate. The Company will also store oil for parties and ms are the same against fire or flood. The business will also embrace the purchase of oil on their own account at certain stages of the market and hold the same for an advance, relying upon the secarity of the tanks for its preservation, until the price will warrant its disposal. Persons have never engaged in this trade on account of the insecurity in storing oil in storing oil in wooden tanks. The object of the tanks for its preservation tanks at their Refinery in Corry, and by their use are enabled to take advantage of the market in the summer season and provide their supply for the winter. The establishe trepatation of Mr. L. S. WARKENS, the President of the Company, as one of the oldest and most successful operators in the oil trade, is a security to stockholders of the success of this oreanized on the success of the success of this operation.

anization. The Capital Stock of the Company is five hundred thousand dollars (\$500,000), divided into five thousand shares of one hundred dollars each. These desiring any of said stock, can address Gen. G. S. Barcustles, Treasurer, Room 5, No. 544 Broadway, New York City, and Jenkins Van Schaick, No. 25 Broad street, New York, or the same y be procured of any other officer of the Company.

REFERENCES.

His EXCELLENCY R. E. FENTON, Governor of New York. His Honor THOS, G. ALVORD, Lieutenant-Governor of New York. Hon. JOHN THOMPON, (Late M. C.), Poughkeepsie, New York. Hon. JAMES M. COUK, (Late State Comptroller and Bank Superintendent), Saratoga, New York. Hon. CLARK B. COCHRAYE (Late M. C.), Albaay, New York. Hon. HENRY R. SELDEN (Late Jage Court of Appeals), Rochester, New York. ALEX. W. HARVEY (Judge Adv. Gen., S. N. Y.), Buffaio, New York.

The Company respectfully refer the public to the following gentlemen as to the general character of this enterprise, and the integrity and character of the officers : Y. R. E. FENTON, Governor of New York. G. ALVORD, Lieutenant-Governor of New York. MPSON, (Iate M. C.), Poughteopsie, New York. COUK, (Tate State Comptroller and Bank Superintendent), Saratoga, New York. SELDEN (Into Judge Court of Appeals), Rochester, N